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Freestone County, Texas [Water Quality Survey of Wells and Springs with Test Hole Data, 1936]

Samuel F. Turner
United States Geological Survey

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FREESTONE COUNTY, TEXAS

PREPARED IN COOPERATION WITH THE UNITED STATES
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY

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FREESTONE COUNTY, TEXAS

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Introduction

by
Samuel F. Turner
Associate Hydraulic Engineer
U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Freestone County was started on January 17, 1936, and completed on June 1, 1936. This project was Project 2077 of District 5 of the Works Progress Administration, Palestine, Texas. H. L. Chenault, an engineer, was project superintendent. Mr. Chenault deserves credit for his work and for the many extra hours he spent on the project. The Palestine office of the Works Progress Administration made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs.

Records of wells and springs in Freestone County, Texas.
(All wells are dug unless otherwise indicated in "Remarks" column.)
(See "Logs of W. P. A. test wells" for all records of test wells.)

No.	Distance from Wortham	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
10	4 miles southeast	J. C. Kirren Est.	--	1934	Creek bottoms	17	48	3
1/ 14a	5 miles east	Jos. Mussbaum, et al.	Jno. W. Hooser	1929	--	3,329	--	--

No.	Distance from Kirvin	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
23	1 mile northwest	Shilo School	--	--	Gentle slope	42	36	1
24	In Kirvin	D. R. Allen	Jim Tear	1914	Level	24	48	2
25	do.	J. C. Adams	Will Davis	1935	do.	31	48	2
27	1 mile south	Mrs. Barnhill	--	1920	do.	12	40	2
28	1¼ miles south	Mrs. Ruth Laney	-- Withers	1925	do.	48	6	2
30	1½ miles west	Gilliam Poindexter	--	1927	Creek bottoms	13	18	1
33	2½ miles west	Ranson Stallworth	--	1915	Gentle slope	59	6	1.5
35	4 miles southwest	Ellis Campbell	--	1915	Draw	31	48	2
36	3½ miles southwest	J.C. McKinney	Frank Hall	1927	Gentle slope	37	48	1
37	4 miles southwest	do.	--	1920	do.	50	36	1
38	do.	W. T. West	--McKinney	1895	Creek bottoms	37	60	0.5
40	5½ miles southwest	do.	--	1915	Gentle slope	62	36	3
41	do.	Kaiser Kuyava	--	1915	Level	47	48	4
43	do.	Avery McKinney	-- Manns	--	do.	67	48	3
44	6½ miles southwest	W. K. Manning	--	1920	Gentle slope	29	48	3
45	do.	New Hope School	--	1920	do.	34	36	3
46	do.	Mrs. J. H. Collins	--	1914	do.	45	36	2
48	do.	S. C. Smith	--	1910	Creek bottoms	32	36	0
49	7 miles southwest	Mrs. Winn	Vernon Gilliam	1934	Gentle slope	44	48	4

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

Records obtained by H. L. Chenault, Project Superintendent.
(Chemical analyses of water from these wells and springs are in the table of analyses)

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
10	15.4	May 7, 1936	B,H	D,S	Brick curb; brick casing, top to bottom. Strong supply. Water reported soft.
14a	---	---	---	---	Drilled well. Oil test. See log.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water d/	Remarks
23	41.9	Mar. 9, 1936	B,H	D	Brick curb. Weak supply. Water reported hard.
24	23.7	do.	B,H	D,S	Wood curb; galvanized casing. Water reported hard.
25	21.7	do.	B,H	D,S	Brick curb. Water reported soft.
27	11.8	do.	B,H	D	Brick curb. Weak supply. Water reported hard.
28	42.1	do.	B,H	D,S	Bored well. Wood curb and casing. Weak supply. water reported hard.
30	9.7	Mar. 23, 1936	B,H	D	Brick curb. Reported strong supply of soft water.
33	57.6	do.	B,H	D	Bored well. No curb. Galvanized casing. Weak supply. Water reported soft.
35	27.4	Mar. 10, 1936	None	D,S	Wood curb. Strong supply. Water reported soft.
36	31.5	do.	B,H	D,S	Brick curb. Water reported soft.
37	39.6	do.	B,H	D,S	Tile curb. Water reported hard.
38	27.4	do.	C,W	D,S	Brick curb. Water reported hard.
40	58.1	do.	B,H	N	Wood curb; brick casing. Strong supply.
41	46.3	do.	B,H	D,S	Wood curb; brick casing. Water reported hard.
43	64.9	do.	B,H	D,S	Do.
44	26.5	Mar. 5, 1936	B,H	D	Wood curb; brick casing. Weak supply. Water reported hard.
45	33.6	do.	B,H	D	Brick curb. Weak supply. Water reported hard.
46	45.2	do.	B,H	D,S	Do.
48	18.3	do.	None	N	Brick curb. Reported strong supply of hard water.
49	36.0	do.	B,H	D,S	Wood curb; brick casing. Weak supply. Water reported hard.

d/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used.
d/ No water sample collected for analysis.
e/ Water level reported.

Records of wells and springs in Freestone County--Continued

No.	Distance from Kirvin	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
51	7½ miles southwest	Clay McKinney	--	1920	Level	32	36	3
52	do.	L. V. Kennedy	--	1930	Level	40	72	1
53	do.	L.P. Robinson	--	1916	do.	29	36	3
56	7 miles southwest	Will Barkouskie	--	1900	Gentle slope	65	60	1.5
59	7 miles south	Clifford Boyd	--	1933	Hilltop	35	48	3
60	do.	Lizzie Cox	--	1850	Gentle slope	40	48	3
62	do.	Winfrey's Serv. Sta.	-- Oil Co.	--	Hilltop	347	6	0.5
63	6 miles south	Withrow Gin Co.	--	1920	Level	20	36	3
64	do.	Cotton Gin School	--	1930	do.	22	48	2
65	do.	Alderman and Alderman	--	1890	Gentle slope	36	48	3
67	do.	J. D. Moffett	--	--	Hilltop	72	48	1
d/ 67a	5 miles south	J. D. Woods	J. S. Cosden, Inc.	1927	--	4,226	--	--
68	4½ miles south	Mrs. L. C. Traham	--	--	do.	37	48	3
71	4 miles south	Mrs. Hugh Day	--	1915	do.	23	36	2
72	do.	Mrs. John Sweat	--	1915	Level	18	48	3
73	3½ miles south	W. W. Day	-- Tear	1912	--	75	6	2
74	do.	J. M. Day	do.	1910	Gentle slope	84	8	2
75	3¼ miles south	H. P. Milligan	--	1936	Hilltop	23	48	3
76	do.	R. E. Hays	--	1931	Gentle slope	32	48	3
77	3 miles south	W. T. Moore	--	--	do.	56	48	3
79	2½ miles south	do.	Owner	1934	Flat	41	48	3
80	do.	Shanks School	--	1915	Gentle slope	53	48	3
82	1-1/3 miles southeast	A. P. Carter	--	1890	do.	32	36	3
83	do.	L. C. Coleman	--	1915	Hilltop	26	48	3
84	2½ miles east	Tom Newman	--	--	Hillside	31	6	2
86	3¼ miles southeast	Fred Carter	--	--	Hilltop	33	48	3
88	3½ miles southeast	Sterling Sims	--	1931	Hillside	25	48	3

H. L. Chenault, Project Superintendent.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
51	24.0	Mar. 5, 1936	None	N	Concrete curb.
52	26.7	do.	C,W	D,S,I	Concrete curb and casing. Strong supply.
53	28.8	do.	C,W	D,S	Brick curb. Weak supply. Water reported hard.
56	53.5	do.	B,H	D,S	Brick curb. Strong supply. Water reported hard.
59	35.5	Feb. 20, 1936	B,H	D,S	Wood curb; brick casing.
60	33.9	do.	--	D,S	Brick curb. Reported old well but still has strong supply.
62	47	e/	C,W	D	Drilled well. 6 inch steel casing.
63	12.1	Mar. 3, 1936	B,H	D,Ind	Wood curb; brick casing. Strong supply. Supplies gin.
64	16.9	do.	B,H	D	Brick curb; reported strong supply.
65	30.4	do.	B,H	D	Wood curb; brick casing. Strong supply
67	63.1	do.	B,H	D, S	Brick curb. Strong supply. Water reported hard.
67a	--	--	--	--	Drilled well. Oil test. See log.
68	27.9	Mar. 9, 1936	B,H	D	Wood curb and casing. Strong supply. Water reported hard.
71	7.0	Mar. 7, 1936	B,H	D,S	Brick curb. Strong supply.
72	12.5	do.	B,H	D,S	Wood curb; brick casing. Weak supply. Water reported hard.
73	69.7	do.	B,H	D,S	Bored well. Wood casing. Water reported hard.
74	66.1	do.	B,H	D,S	Bored well. Galvanized casing; water reported hard.
75	17.5	do.	B,H	D,S	Brick curb.
76	30.6	Mar. 9, 1936	B,H	D,S	Wood curb; brick casing. Strong supply.
77	47.1	Mar. 7, 1936	B,H	D,S	Brick curb. Strong supply. Water reported hard.
79	27.5	do.	B,H	D,S	Do.
80	43.4	do.	B,H	D	Do.
82	8.3	Mar. 20, 1936	B,H	D,S	Wood curb; brick casing. Strong supply; water reported limy.
83	14.6	do.	B,H	D,S	Wood curb; log casing. Strong supply. Water reported hard.
84	25.6	do.	B,H	D	Bored well. Wood curb and casing.
86	32.3	do.	None	N	Wood curb; brick casing.
88	17.6	do.	B,H	D,S	Wood curb; brick casing. Strong supply.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Kirvin	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
90	8 miles southeast	John Wylie	--	--	Gentle slope	29	48	2
92	8½ miles southeast	John Riley	L.L. Rudasill	1935	do.	15	48	3
93	do.	Mrs. G. V. Hullum	-- Calloway	1917	do.	22	36	3
95	9 miles southeast	John Riley	--	--	do.	21	36	3
96	7½ miles southeast	Jim Short	--	--	Hilltop	65	48	3
100	8½ miles south	Tabernacle School	--	1933	do.	22	36	3
101	7½ miles southeast	T. B. Connell	Owner	1933	Gentle slope	70	48	1
103	do.	H. J. Vibrock	H. J. Vibrock	1928	do.	15	48	3
104	8 miles southeast	G.C. Ward	--	--	Flat	86	36	3
106	8½ miles south	J. H. McAdams	George Withers	1934	Gentle slope	45	6	2.5
107	8 miles south	George Hoose	do.	1933	do.	80	6	3
109	do.	H.J. Adamson	George Elliot	1935	Hilltop	43	30	1
111	6½ miles south	Magnolia Pipe Line Co.	--	--	Gentle slope	58	8	1
112	do.	do.	--	1915	Flat	150	6	--
113	do.	Mrs. Hugh Day	--	--	do.	23	48	3
115	do.	O. J. Miner	--	1933	Gentle slope	42	6	2.5
116	7 miles south	Roy Simmons	-- Slaves	1830	Draw	35	48	5
117	do.	do.	--	1930	Hillside	47	30	1
118	do.	do.	Slaves	1860	Hilltop	56	48	0.5
120	9 miles south	B.N. Demus	--	--	Flat	45	48	2
122	do.	Jim Clements	--	--	do.	47	48	3
123	9½ miles south	Richardson High School	Sam Vernon	1930	do.	26	48	3
124	do.	Lena Bates	Jim Palm	1935	do.	49	36	3
126	do.	Mrs. Bradley	--	--	Gentle slope	22	24	3

H. L. Chenault, Project Superintendent.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
90	28.8	Feb. 19, 1936	B,H	D,S	Log curb. Bad taste reported.
92	9.9	do.	B,H	D,S	Brick curb. Strong supply.
93	15.7	do.	B,H	D,S	Brick curb; plastered brick casing.
95	6.1	May 29, 1936	B,H	D,S	Wood curb and casing. Strong supply. Water reported hard.
96	56.0	Feb. 13, 1936	B,H	D	Wood curb; plastered casing. Strong supply.
100	23.0	Mar. 31, 1936	B,H	D	Wood curb and casing. Weak supply.
101	60.0	e/	C,G,2½	D,S	Brick curb and casing. Weak supply. Water reported from quicksand.
103	9.7	Feb. 13, 1936	B,H	D,S	Brick curb. Reported water formerly soft but later became hard.
104	60.3	do.	B,H	D,S	Brick curb. Strong supply.
106	38.9	Jan. 30, 1936	B,H	D,S	Bored well. Wood curb and casing. Weak supply. Water reported hard.
107	64.0	e/	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Reported sulphur taste.
109	28.3	Jan. 30, 1936	B,H	D,S	Brick curb. Strong supply. Hard rock reported at 32 feet.
111	41.4	Mar. 3, 1936	C,A	D	Bored well. Concrete curb; galvanized casing. Strong supply. ½ inch air line. Perforated casing at bottom.
112	38	e/	C,A	D	Bored well. Galvanized casing, perforated at bottom. ½ inch air line.
113	15.6	Mar. 3, 1936	B,H	N	Wood curb; brick casing. Strong supply.
115	35.4	do.	B,H	D	Bored well. Wood curb and casing. Strong supply.
116	25.6	Jan. 30, 1936	C,G,1½	D,S	Concrete curb. Weat supply. Estimated capacity 3 gallons a minute. Irrigates garden in summer.
117	36.7	do.	None	N	Brick curb. Water reported from red sand.
118	50.2	do.	C,W	D,S	Brick curb. Weak supply. Reported pumps dry in 3 hours.
120	32.6	Mar. 6, 1936	B,H	D,S	Wood curb; rock casing. Water reported hard.
122	43.8	do.	B,H	D	Wood curb; wood casing. Strong supply. Water reported hard.
123	25.3	do.	B,H	D	Wood curb; brick casing. Weak supply. Bad taste reported.
124	36.3	do.	--	D,S	Wood curb; brick casing. Hard water reported from blue sand.
126	20.5	do.	B,H	D,S	Wood curb; rock casing. Weak supply. Water reported hard.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Streetman	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
d/203a	2½ miles south	E. E. Lamb	Bert Fields	1936	--	3,503	--	--
206	2¾ miles east	Betty Davis	Joe Folk	1925	Flat	80	6	3.5
207	4½ miles east	J.S. Adair	Preacher Johnson	1934	Hillside	75	48	3
208	4¾ miles east	do.	do.	1926	do.	47	48	3
d/210a	4¼ miles east	Oliver Burleson	Neversuch Oil Co.	1932	--	3,733	--	--
213	6 miles southeast	B. C. Whatley	W.J. Davis	1934	Gentle slope	60	36	2
215	6½ miles southeast	Guy Coleman	do.	1931	do.	35	36	3
216	7 miles southeast	Jno. L. Bonner	Jno. Baker	1933	Hillside	74	8	3
217	do.	Mrs. M.C. Awalt	Howard Freeman	1924	Gentle slope	60	6	3.5
220	6½ miles southeast	Fred Nettles	Owner	1929	Hillside	19	48	2.5
221	7 miles southeast	Paul Bonner	Paul Bonner	1932	Gentle slope	21	48	3
222	7½ miles southeast	T. R. Bonner	Vernon Gilliam	--	Flat	45	36	3
223	8½ miles southeast	W. W. Steward	J. B. Lewis	1925	Hillside	19	36	2
228	11 miles east	Marvin Watson	Joe Folk	1925	Flat	89	6	3

No.	Distance from Fairfield	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
233	6 miles north	Douglas Weaver	--	1910	Hillside	45	36	3
235	do.	M. H. Whitaker	J. B. Lewis	1922	do.	29	36	3
236	do.	do.	--	--	Creek bottoms	Spring	--	--
237	6½ miles northwest	Jim Frazier	Pete Loder	1915	Hilltop	48	48	0
239	do.	Rich Salter	Geo. Vernon	1932	Hillside	25	48	3
240	do.	Percy McGeorge	-- Oil Co.	1928	Creek bottoms	--	10	--
242	5½ miles northwest	W. S. Patrick	--	--	Hilltop	31	48	3

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
b/ T, turbine, A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
203a	--	--	--	--	Drilled well. Oil test. See log.
206	76.8	Apr. 15, 1936	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Water reported slightly hard.
207	71.3	do.	B,H	D,S	Wood curb; brick casing. Water reported too hard for washing.
208	44.3	do.	B,H	D,S	Wood curb; brick casing. Weak supply. Water reported hard.
210a	--	--	None	N	Drilled well. Oil test. See log.
213	56.4	Apr. 6, 1936	C,W	D,S	Brick curb and casing. Strong supply. Water reported slightly hard and limy.
215	36.6	do.	B,H	D	Wood curb; brick casing. Weak supply. Reported soft water.
216	74.1	Apr. 14, 1936	B,H	D,S	Bored well. Galvanized casing. Weak supply. Hard turbid water reported.
217	55.6	do.	B,H	D,S	Bored well. Wood curb and casing. Weak supply. Water reported hard.
220	17.5	Apr. 15, 1936	B,H	D,S	Brick curb and casing. Strong supply. Soft water reported.
221	21.0	do.	B,H	D,S	Wood curb; brick casing. Weak supply; water reported fairly soft.
222	35.9	do.	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard.
223	18.5	Apr. 14, 1936	B,H	D,S	Wood curb; brick casing. Strong supply. Water reported hard.
228	84.3	Apr. 24, 1936	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Water reported hard.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
233	41.0	Apr. 14, 1936	B,H	D,S	Wood curb; brick casing. Strong supply. Water reported soft.
235	30.0	do.	B,H	D,S	Brick curb and casing. Weak supply. Water reported slightly hard.
236	Flows	do.	None	D,S	Wood curb. Wa ter reported from quicksand. Nearly fails in drought.
237	40.0	Apr. 3, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard and limy.
239	25.5	do.	B,H	---	Wood curb; 10 feet log casing at top. Strong supply.
240	Flows	--	None	D,S	Drilled well. Strong supply through 2 inch choke.
242	27.8	Apr. 16, 1936	B,H	D,S	Rock curb and casing. Strong supply. Sour water reported.

c/ I irrigation; Ind, indistrial, P. public; D, domestic; S, stock; N, not used.
d/ No water sample collected for analysis.
e/ Water level reported.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Fairfield	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
244	5 miles northwest	M. J. Tate	John Baker	1933	Gentle slope	41	6	2
245	do.	Leonard York	Roy Minchew	--	do.	29	36	3
246	do.	Colon Willard	Will Davis	1936	do.	28	36	3
248	4¾ miles northwest	S. A. Smith	Luther Thompson	1933	Hilltop	14	36	3
249	4¼ miles northwest	M. J. & W. Tate	Leslie Tidwell	1933	Hillside	42	36	3
250	4½ miles north	Walter Freeman	-- Claypool	1830	do.	38	36	3
253	4½ miles north	Arthur Cameron	Owner	1929	Hilltop	17	48	3
254	4½ miles north	W. E. Jones	Will Davis	1936	Gentle slope	93	48	3.5
255	5 miles north	Forrest Jones	Andry Baker	1933	do.	99	6	3
256	4½ miles north	Mrs. B. R. Speed	Robert Speed	1935	do.	46	36	--
257	4¾ miles north	J. F. Aultman	Leslie Tidwell	1934	do.	41	36	3
259	5 miles north	Carl Williford	--	--	do.	41	6	2
260	6 miles north	Ben Willard	Leslie Tidwell	1935	Flat	24	36	3
261	do.	Tommie Willard	Owner	1930	do.	29	48	3
262	6½ miles north	T.R. Donaldson	Leslie Tidwell	1935	do.	20	36	2.5
264	6 miles northeast	Wallace McGuyer	--	1915	Gentle slope	32	6	3
266	5½ miles northeast	do.	--	1929	Hilltop	29	36	2
267	do.	Henry Lee	Ernest Folk	1933	Hillside	39	6	3
268	do.	Mrs. H. A. Lee	do.	1932	do.	56	6	3
269	4½ miles northeast	Ord Keaton	--	1900	Hilltop	50	8	2
270	do.	do.	--	1910	Hillside	20	6	2
271	4¼ miles northeast	E. J. Folk	Lee Mallard	1936	Gentle slope	14	48	2
273	3¾ miles northeast	Jeff Owens	Joe Creel	1900	do.	15	24	3
274	3½ miles northeast	Martha Day	--	1910	do.	80	6	2
276	3 miles northeast	Mrs. J.W. Day	Hugh Talley	1910	Flat	115	6	2
277	do.	Jimmie Day	--	1918	Gentle slope	15	48	--
278	2 miles north	Shadrick Thompson	Owner	1934	do.	58	36	2.5

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
244	38.7	Apr. 16, 1936	B,H	D,S	Bored well. Wood casing. Weak supply of good water reported.
245	28.6	Apr. 3, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard.
246	24.8	do.	B,H	D	Wood curb; brick casing. Water reported hard.
248	10.3	do.	B,H	D,S	Wood curb; brick casing. Strong supply. Formerly weak supply reported.
249	42.0	do.	B,H	D,S	Brick curb and casing. Strong supply. Water reported soft.
250	35.9	Apr. 14, 1936	B,H	D,S	Brick curb installed Mar. 1936; brick casing. Strong supply.
253	12.9	Apr. 13, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard.
254	87.4	do.	B,H	D,S	Wood curb; brick casing. Water reported from blue packed sand.
255	96.0	do.	B,H	D,S	Bored well. Wood curb and casing. Water reported from quicksand. Weak supply.
256	42.0	do.	B,H	D,S	Brick curb and casing. Water reported from white sand.
257	36.1	do.	B,H	D,S	Brick curb and casing. Hard water reported from white sand.
259	33.9	do.	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Water reported hard.
260	23.9	June 20, 1936	B,H	D,S	Brick curb and casing. Strong supply. Turbid.
261	20.4	do.	B,H	D,S	Wood curb and casing. Strong supply. Quality reported variable.
262	19.6	do.	B,H	D,S	Brick curb and casing. Reported strong supply of soft water.
264	31.5	June 15, 1936	B,H	D,S	Bored well. Wood curb and casing. Water reported from quicksand. Weak supply.
266	21.1	Apr. 23, 1936	C,W	D,S	Brick curb and casing. Strong supply.
267	36.1	do.	B,H	D,S	Bored well. Wood curb and casing. Water reported from quicksand.
268	48.0	do.	B,H	D,S	Bored well. Wood curb and casing. Strong supply.
269	26.6	June 15, 1936	B,H	D,S	Bored well. Galvanized casing. Strong supply.
270	14.3	do.	B,H	D,S	Bored well. Wood curb and casing.
271	10.7	Apr. 23, 1936	B,H	D,S	Wood curb and casing. Strong supply.
273	13.9	do.	B,H	D,S	Wood curb; rock casing.
274	79.9	Apr. 13, 1936	B,H	D,S	Bored well. Galvanized curb and casing. Weak supply. Water reported hard and turbid.
276	108.0	June 20, 1936	B,H	D,S	Bored well. Galvanized casing. Weak supply. Water reported too hard for washing.
277	13.3	Apr. 13, 1936	B,H	D,P	Wood curb; brick casing. Reported strong supply of hard, limy water.
278	55.0	June 20, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard.

Records of wells and springs in Freestone County---Continued.

No.	Distance from Fairfield	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
279	2¼ miles north	W. M. Jones	Leslie Tidwell	1936	Hilltop	37	36	3
280	3 miles north	J. L. Shanks	---	1928	do.	20	36	2
282	3¼ miles north	do.	John Baker	1935	do.	85	6	3.5
d/282a	3½ miles north	Ernest Beauchamp	Peyton Bros.	1936	---	4,403	---	---
284	3¼ miles northwest	R. N. Cannon	John Baker	---	Gentle slope	62	6	1
285	2½ miles northwest	J. L. Miller	J. C. Ivy	1930	do.	32	36	2
286	1½ miles northwest	J. E. Irvin & J. E. Bishop	Coy Guest	1930	Hillside	32	36	3
287	2 miles northwest	Jim Vaughan	---	1933	Gentle slope	21	48	2.5
288	1½ miles northwest	Vell McAdams	Owner	1933	do.	24	60	3
289	do.	Matt Henderson	Vernon Gilliam	1933	do.	24	48	2
291	1¼ miles northwest	John Blakely	Owner	1925	do.	37	36	---
292	1 mile north	John Norris	Leslie Tidwell	1934	Creek bank	18	36	3
293	¾ mile north	J. R. Sessions	Henry Lee	1934	Gentle slope	22	48	2
296	3½ miles west	Johnny George	Odell George	1929	Hilltop	44	36	3
298	4 miles southwest	Lake Watson	---	---	Gentle slope	55	6	2
299	3½ miles southwest	Fred Jett	Owner	1934	Hillside	8	48	2
300	3½ miles southwest	L. R. Boyd	L. R. Boyd	1925	Hilltop	45	36	1
302	2¼ miles southwest	Billie Watson	---	1929	do.	25	6	1
304	2 miles southwest	Mary John	Archie John	1933	Gentle slope	11	48	2
305	1½ miles southwest	Mat McGee	Owner	1928	Hillside	19	36	2
306	1½ miles south	J. R. B. Cain	---	---	do.	29	48	3
307	½ mile west	R. P. Slatter	Ben Black	1936	Gentle slope	41	6	2
309	do.	Newt Robison	---	1925	do.	40	6	2
310	do.	Walter Ely	---	1920	do.	41	6	3
311	do.	J. H. Eubanks	Jim Swinman	1915	do.	47	36	4
d/312	City of Fairfield	City of Fairfield	---	1935	Flat	506	6	1
314	1 mile east	Mrs. - Misildine	---	1900	Gentle slope	21	36	2.5

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
279	28.5	June 20, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard.
280	17.2	Apr. 13, 1936	B,H	D,S	Brick curb and casing. Strong supply.
282	82.4	do.	B,H	S	Bored well. Wood curb and casing. Weak supply. Water reported unfit for washing or cooking.
282a	—	--	None	N	Drilled well. Oil test. See log.
284	53.9	Apr. 3, 1936	B,H	D,S	Bored well. Wood curb and casing. Water reported hard.
285	32.0	do.	B,H	D,S	Concrete curb and casing.
286	34.2	do.	B,H	D	Wood curb; brick casing. Water reported from quicksand. Strong supply.
287	18.1	do.	B,H	D,S	Wood curb; brick casing.
288	21.8	do.	B,H	D,S	Brick curb and casing.
289	16.1	do.	B,H	D	Wood curb; brick casing, top to bottom. Strong supply.
291	35.9	do.	B,H	D	Brick curb and casing. Weak supply.
292	16.5	do.	B,H	—	Wood curb; brick casing. Water reported hard.
293	19.9	do.	C,H	D	Wood curb; brick casing.
296	43.9	Mar. 19, 1936	B,H	D,S	Wood curb; 5 feet brick casing at top. Water reported fairly soft.
298	46.7	May 29, 1936	B,H	D,S	Bored well. Wood curb and casing. Water reported hard.
299	2.5	do.	B,H	D,S	Brick curb and casing. Strong supply.
300	35	e/	B,E,½	D,S	Concrete curb; brick casing. Water reported good until pump was installed.
302	22.6	Mar. 26, 1936	B,H	D,S	Bored well. Wood curb and casing. Water reported from quicksand.
304	6.8	do.	B,H	D,S	Wood curb; steel casing. Water reported from quicksand.
305	16.0	do.	B,H	D,S	Wood curb and casing.
306	30.7	do.	—	D,S	Galvanized curb; 10 feet galvanized casing at top. Weak supply. Water reported hard.
307	32.3	do.	B,H	—	Bored well. Wood curb and casing. Water reported hard.
309	34.0	do.	B,H	D,S	Bored well. Wood curb and casing. Strong supply.
310	38.1	do.	B,H	D	Bored well. Wood curb and casing. Water reported hard.
311	33.9	do.	B,H	D	Wood curb; brick casing. Strong supply. Water reported hard.
312	140	e/	T,E,25	P	Drilled well. See log.
314	18.1	June 15, 1936	B,H	S	Galvanized curb and casing. Strong supply. Water reported hard.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Fairfield	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
315	1¼ miles east	Johny Castle	Sam Moore	1926	Gentle slope	21	36	3
316	1½ miles east	J. C. Ritter	Owner	1924	do.	15	36	2
317	1½ miles east	J. F. Day	Leslie Tidwell	1935	--	20	36	3
318	2 miles northeast	Marion Willard	Wes Hatcher	1932	Gentle slope	30	36	1.5
319	1½ miles northeast	Tom Lindley	do.	1935	do.	28	36	2
322	2½ miles northeast	F. M. Kent	Giles Kent	1935	do.	20	24	2
324	4¼ miles northeast	John Metzger	Joe Folk	1926	Hilltop	74	6	2
325	4½ miles northeast	Keeney & Hall	John Baker	1914	Hillside	19	36	2

No.	Distance from Young	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
400	9 miles northwest	J. & C. V. Williams	--	--	Rolling	28	36	2.6
401	10 miles north	Chris Tally	I. Nealy	1907	Creek bottoms	95	48	3
402	9½ miles north	Chas. Reese	Ed. Daniel	1928	Hilly	79	48	3.2
403	9 miles north	E. E. Nettles	Bill Newton	1914	Hilltop	63	10	2.3
404	do.	L. Granville	Henry Smith	1900	Hilly	35	36	2.8
405	6½ miles north	Scott Ward	--	--	Bottom land	23	42	2.2
406	5 miles north	C. H. & E. M. Watson	--	1915	Gentle slope	15	36	0.5
408	4½ miles northwest	H. C. Granberry	Joe Folk	1924	do.	63	6	2
409	4 miles northwest	Mack Cockrell	Ernest Folk	1936	Flat	68	6	2.5
413	1½ miles northwest	L. E. Spencer	Joe Folk	1929	Gentle slope	30	6	1.5
414	1½ miles northwest	W. T. Cole	do.	1929	do.	105	6	4
416	2½ miles northeast	R. Q. Young	--	--	Draw	10	36	2.6
417	7½ miles northeast	Stanolind Oil Co.	McMasters-Pomeroy	1936	River bottoms	370	4½	--

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
315	18.6	June 15, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported soft.
316	13.4	do.	B,H	D,S	Galvanized curb and casing. Weak supply. Water reported slightly hard.
317	21.1	do.	B,H	D,S	Brick curb and casing. Strong supply. Water reported slightly hard.
318	17.0	do.	C,W	D,S	Brick curb and casing. Strong supply. Water reported hard and salty.
319	26.8	June 20, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported slightly hard.
322	17.7	Apr. 23, 1936	B,H	D,S	Wood curb and casing. Never fails.
324	72.0	May 1, 1936	B,H	D,S	Bored well. Wood curb and casing. Water reported from black quicksand.
325	17.1	do.	B,H	D,S	Wood curb; brick casing. Reported originally soft, but now hard.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
400	26.6	Sept. 21, 1396	B,H	D,S	Wood curb; stone casing, top to bottom. Never fails. Reported water becomes turbid at times.
401	67.1	do.	B,H	D,S	Brick curb and casing. Never fails. Water reported slightly hard.
402	47.9	do.	B,H	D,S	Wood curb; brick casing. Permanent supply.
403	56.5	do.	B,H	D,S	Wooden curb and casing. Weak supply. Water reported hard.
404	33.5	Sept. 23, 1936	B,H	D,S	Brick curb and casing. Reported nearly fails in summer.
405	19.8	Sept. 21, 1936	B,H	D,S	Wood curb and casing. Strong supply. Reported supplies 14 barrels a day to community.
406	14.7	Apr. 24, 1936	B,H	D,S	Brick curb and casing. Weak supply.
408	60.6	do.	B,H	D,S	Bored well. Wood curb and casing. Reported weak supply of soft water.
409	64.9	do.	B,H	---	Bored well. Wood curb and casing. Strong supply.
413	27.1	do.	B,H	---	Bored well. Wood curb and casing. Strong supply of soft water reported.
414	94.1	do.	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Water reported slightly hard.
416	6.6	Sept. 23, 1936	B,H	S	Wood curb and casing. Located near edge of wide river bottoms.
417	Flows	Sept. 22,	None	Ind	Drilled well. 4½ inch iron casing. Flow due to gas pressure. Supplies boiler. See log.

c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used.
d/ No water sample collected for analysis.
e/ Water level reported.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Young	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
d/417a	7½ miles northeast	Hetty Berk	Amerada Pet. Corp.	1935	--	4,025	--	--
418	In Young	J. H. Granberry	Joe Folk	1929	Gentle slope	47	6	1.5
419	do.	Boyd Henderson	Ernest Folk	1933	Flat	41	6	3
421	½ mile southwest	Mrs. May Casey	Roy Minchew	1934	Gentle slope	48	36	2
424	2 miles southwest	Brady Gunter	Ernest Folk	1935	do.	23	6	3
425	1½ miles south	J.S. Newman	Ted Owens	1880	Hilltop	55	48	3
426	1½ miles south	John McCann	Bob Bean	1915	do.	65	48	3
436	4¼ miles southeast	F.E. Hill	Eugene Day	1915	Hillside	23	36	3
437	do.	do.	--	--	do.	Spring	--	--

No.	Distance from Butler	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
506	7½ miles northwest	F. E. Hill	Howard Mainus	1933	Gentle slope	31	36	2
517	2½ miles west	Burleson & Red	Owners	1930	do.	19	36	2
518	2½ miles west	do.	do.	1929	do.	20	36	3
521	2¼ miles west	Joe Parker	Alfred Manning	--	do.	19	36	3
522	do.	Mrs. J. C. Robison	--	1880	Hilltop	25	48	4
524	2½ miles southwest	Mally Woods	Will Jones	1905	Gentle slope	28	48	3
525	3½ miles southwest	Shilo School	do.	1915	do.	15	36	4
527	3½ miles southwest	Fanny Malone	Ed. Malone	1915	Hilltop	16	24	2
528	4 miles southwest	do.	--	1900	do.	22	36	3
530	3½ miles southwest	T. H. Lee	Owner	1910	Hillside	14	24	3
535	2½ miles southeast	W. C. Gorman	do.	--	do.	15	72	2
537	3 miles south	B. B. Kimbell	do.	1915	Hilltop	70	48	2
538	2½ miles south	Robert Mims	Jake Carter	1905	Hilltop	22	48	--
540	3¼ miles south	Myrtle Webb	-- Harrison	1933	do.	34	48	4
541	3½ miles south	J. W. Murdock	--	1935	Flat	10	36	4

H. L. Chenault, Project Superintendent.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
417a	---	---	None	N	Drilled well. Oil test. See log.
418	39.4	Apr. 23, 1936	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Reported good quality of soft water.
419	39.0	do.	B,H	D,S	Bored well. Wood curb; wood casing. Never fails.
421	44.9	June 15, 1936	B,H	D,S	Brick curb and casing. Strong supply. Water reported hard.
424	20.9	do.	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Water reported slightly hard.
425	49.8	do.	B,H	D,S	Concrete curb and casing. Strong supply.
426	51.6	do.	B,H	D,S	Wood curb; log casing. Never fails. Reported soft water.
436	14.6	Apr. 27, 1936	B,H	D,S	Galvanized curb and casing. Strong supply.
437	Flows	do.	None	D,S	Wood curb. Estimated flow; 1 gallon a minute from two openings in white sand.

No.	Depth below measuring point (feet)	Date of measurement	Pump and power b/	Use of water c/	Remarks
506	30.9	May 12, 1936	B,H	D,S	Galvanized curb and casing. Never fails.
517	16.5	June 9, 1936	C,E,	D	Brick curb and casing. Located 20 yards west of well number 518. Reported alum taste. Never fails.
518	17.7	do.	B,H	D	Brick curb and casing. Strong supply. Reported good quality of water.
521	10.7	do.	B,H	D,S	Brick curb and casing. Never fails. Reported soft water.
522	13.7	do.	B,H	D,S	Wood curb; rock casing. Strong supply of hard water reported.
524	7.7	do.	B,H	D,S	Wood curb; rock casing. Good supply. Reported bad taste in rainy weather.
525	16.9	do.	B,H	D	Wood curb; rock casing, top to bottom. Weak supply. Reported slightly hard.
527	7.8	do.	B,H	D,S	Wood curb; rock casing. Never fails.
528	17.9	do.	B,H	D,S	Do.
530	11.4	June 19, 1936	B,H	D,S	Wood curb; rock casing, top to bottom. Strong supply Reported soft water.
535	10.5	do.	B,H	D,S	Wood curb; 6 feet wood casing at top. Never fails. Reported soft water.
537	61.0	do.	B,H	D,S	Wood curb. Never fails. Reported soft water.
538	17.8	do.	B,H	D,S	Wood curb. Strong supply. Water reported slightly hard.
540	36.8	do.	B,H	D,S	Wood curb. Weak supply. Water reported hard.
541	11.4	do.	B,H	D,S	Wood curb and casing. Weak supply. Water reported slightly hard.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Butler	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)a/
543	4¼ miles southeast	M. Danel	--	--	Hillside	Spring	--	--
544	4 miles southeast	Mrs. Keeling	Rob Dunbar	1906	do.	26	48	3
546	4½ miles southeast	E. Guess	Owner	1900	Gentle slope	36	48	2
547	4¾ miles southeast	Jesse Lee	Jesse Lee	1929	do.	26	30	3
548	5 miles southeast	Mrs. E. E. Haddon	---	1920	do.	11	36	1
d/553a	7 miles east	H. R. Dietz	Humble Oil & Ref. Co.	1933	---	5,590	6	---

No.	Distance from Dew	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)a/
d/600a	6 miles northwest	Wm. R. Boyd, Jr.	J. L. Collins & Co.	1937	---	4,507	---	---
601	6½ miles north	William Jones	Edwin Jones	1933	---	24	48	3
602	7 miles north	J. R. B. Cain	---	---	Hillside	15	48	3.5
603	do.	do.	Leslie Tidwell	1933	Gentle slope	25	36	3
604	do.	d o.	B. P. Cain	1901	do.	27	36	3
606	do.	F. E. Hill	Will Davis	1935	do.	40	36	3
607	do.	do.	---	---	do.	39	6	3
609	6 miles north	Riley Middleton	Jimmy Gordon	1931	do.	61	36	3
610	8 miles north	W. A. Parker	Roy Minchew	1934	do.	68	36	2.5
611	7⅓ miles north	Bryant Daniels	---	1933	do.	85	6	4
613	do.	Grady Ivy	Vernon Gilliam	1934	Hillside	25	36	3
614	8 miles north	Clenon Mullin	Owner	1934	do.	33	36	2
616	10½ miles northeast	Will Creel	Will Creel	1935	do.	22	---	2
618	9 miles northeast	N. L. Richardson	Geo. Creel	1931	do.	30	36	2
622	8 miles northeast	G. J. Weaver	--- Alford	1910	Hillside	19	72	3
624	7½ miles northeast	Joe McAdams	Owner	1933	Gentle slope	31	6	3
625	do.	Mt. Zion School	---	1875	Flat	39	36	4

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
543	Flows	June 19, 1936	None	D	Wood box curb. Estimated flow; one gallon a minute from one opening in quicksand.
544	25.8	do.	B,H	D,S	Wood curb. Strong supply. Reported soft water.
546	35.2	do.	B,H	D,S	Wood curb. Weak supply. Reported soft water.
547	23.2	do.	B,H	D,S	Wood curb; brick casing. Never fails. Reported soft water.
548	7.2	do.	None	N	Wood curb and casing. Strong supply. Reported soft water.
553a	---	---	None	N	Drilled well. Oil test. See log.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
600a	---	---	None	N	Drilled well. Oil test. See log.
601	24.9	Mar. 26, 1936	B,H	D,S	Wood curb; 8 feet log casing at top. Reported soft water.
602	10.1	do.	B,H	D,S	Wood curb; 8 feet galvanized casing at top.
603	22.5	do.	B,H	D,S	Wood curb; brick casing. Strong supply. Reported soft water.
604	21.9	do.	B,H	D.S	Wood curb; brick casing, top to bottom. Reported hard water.
606	39.0	Apr. 25, 1936	B,H	D,S	Wood curb; brick casing; weak supply. Reported soft water.
607	33.4	do.	B,H	D,S	Bored well. Wood curb; wood casing. Weak supply. Reported soft water.
609	52.1	do.	B,H	S	Brick curb; brick casing, top to bottom. Strong supply. Reported hard water.
610	64.4	Apr. 7, 1936	B,H	D,S	Brick curb; brick casing. Strong supply. Reported hard water.
611	81.9	do.	B,H	D,S	Bored well. Wood curb; wood casing. Weak supply. Reported hard water.
613	15.1	do.	C,W	D,S	Brick curb and casing. Reported water from quicksand. Strong supply.
614	33.2	do.	B,H	D,S	Wood curb; 10 feet wood casing at top. Weak supply. Reported soft water.
616	19.9	Apr. 27, 1936	B,H	D,S	Wood curb. Reported soft water. Never fails.
618	26.8	do.	B,H	---	Wood curb; wood casing, top to bottom. Reported soft water. Never fails.
622	3.5	Apr. 7, 1936	B,H	D,S	Wood curb and casing. Reported hard water. Never fails. Reported flows in wet weather.
624	31.2	do.	B,H	---	Bored well. Wood curb and casing. Weak supply. Reported hard water.
625	26.6	do.	B,H	---	Wood curb; rock casing, top to bottom. Never fails. Reported soft water.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Dew	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
626	7½ miles northeast	A. F. McAdams	Ben Black	1924	Flat	48	6	2
627	do.	L. V. Jones	Owner	1931	do.	25	36	3
629	do.	J. F. Emmons	J. F. Emmons	1931	Hillside	22	48	1
630	do.	J. S. Ivy	Vernon Gilliam	1934	do.	64	36	3
631	7½ miles north	Leonard Emmons	Joe Folk	1925	Gentle slope	49	6	1
633	5⅔ miles north	W. L. Glazener	John Baker	1920	do.	79	6	4
635	do.	Sim Chavers	---	1920	Hillside	65	48	2
637	5 miles north	do.	Owner	1923	do.	14	36	3
638	do.	W. R. Boyd, Jr.	Jerry Philpott	1933	do.	72	6	3
640	3¼ miles north	T. C. Gardner	Ben Mims	1935	Hilltop	27	30	3
641	4¼ miles north	Wm. McIlveen	Bob Black	1933	Gentle slope	45	6	1.5
642	4 miles north	do.	do.	1929	do.	41	6	1.5
644	2½ miles north	Edith Johnson	Owner	1927	Hillside	7	36	2
d/644a	2 miles north	Minyard White	Sun Oil Co.	1933	---	4,762	10¾	---
647	In Dew	W. J. Lane, Jr.	R. C. Black	1930	Flat	64	6	0
648	do.	Dew School	do.	1931	do.	48	12	0
649	do.	A. H. White	L. D. Hartley	1932	Hilltop	18	36	2
650	do.	W. C. Clark	Jeff Ham	1895	do.	13	36	3
651	½ mile south	J. A. Harrison	Robert Black	1930	Hillside	45	6	3
653	1 mile northeast	W. F. Swinburne	---	---	Gentle slope	47	36	0.5
d/654	1½ miles northeast	Robt. Moody	---	---	Branch	Spring	---	---
655	1¾ miles northeast	A. Bradshaw	Owner	1929	Hillside	45	36	3
662	7 miles northeast	Grady Weaver	---	1890	do.	33	48	3
663	do.	G. J. Weaver	---	1900	do.	31	---	3

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
626	35.7	June 9, 1936	B,H	D,S	Bored well. Wood curb and casing. Strong supply. Reported hard water.
627	19.6	do.	B,H	D,S	Brick curb and casing. Strong supply. Reported hard water.
629	21.1	Apr. 7, 1936	None	N	Brick curb; brick casing, top to bottom. Weak supply Reported hard water.
630	64.6	do.	C,W	D,S	Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand.
631	35.4	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water.
633	--	--	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water.
365	65.3	Mar. 27, 1936	B,H	D,S	Brick curb; plastered casing, top to bottom.
637	15.3	do.	B,H	D,S	Corrugated iron curb; 36 inch corrugated iron casing, top to bottom. Weak supply. Reported soft water.
638	63.9	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported hard water.
640	26.6	Mar. 12, 1936	B,H	D,S	Wood curb; brick casing, top to bottom. Weak supply.
641	39.9	Apr. 26,	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported hard water.
642	37.1	Apr. 25, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Weak supply. Reported hard water.
644	4.2	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Never fails. Reported soft water.
644a	--	--	None	N	Drilled well. Oil test. See log.
647	48.0	Mar. 27, 1936	C,G,2	D	Bored well. Wood curg; wood casing, top to bottom. Never fails. Reported hard water.
648	38.0	do.	C,G,2	P	Bored well. Clay tile curb; 12 inch clay tile casing, top to bottom. Strong supply. Reported hard water.
649	12.2	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Weak supply Reported soft water.
650	9.6	June 9, 1936	B,H	D,S	Brick curb; brick casing, top to bottom, Never fails. Reported soft water.
651	36.9	Mar. 27, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water.
653	30.6	Apr. 25, 1936	C,W	D,S	Brick curb; brick casing, top to bottom. Strong supply. Reported slightly hard water.
654	Flows	do.	None	D,S	Estimated flow; 1 gallon a minute from one opening in white water sand.
655	44.3	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Reported soft water. Water reported from quicksand. Never
662	33.4	May 6, 1936	B,H	D,S	Wood curb; 4 feet brick casing at top. Report- fails
663	31.1	do.	B,H	D,S	ed water hard last four years. Water reported from Wood curb. Strong supply. red packed sand. Never fails Reported soft water.

c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used.
d/ No water sample collected for analysis.
e/ Water level reported.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Dew	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
665	4½ miles east	W. N. Evans	Ben Black	1910	Hillside	70	8	2
667	3½ miles east	Wood George	do.	1930	do.	26	6	2
668	do.	do.	-- Green	1936	do.	31	36	3
670	3 miles east	A. C. Anderson	Ben Black	1910	Hilltop	35	36	3
675	4½ miles east	R. E. Petty	Charlie Luckett	1920	Hillside	17	48	3
676	5 miles east	John Adkins	Ben Black	1933	do.	20	6	2
677	5½ miles east	A. B. Adkins	do.	1931	do.	65	6	2
679	6½ miles east	O. W. Killiam	--	--	do.	28	60	2
681	9 miles east	Abe Jones	Owner	1927	do.	13	36	3
682	8½ miles east	do.	Abe Jones	1926	Hilltop	22	36	2
683	do.	Dan Bryant	Dan Bryant	1934	Hillside	45	36	3
685	do.	Jim Jones	Jim Jones	--	Gentle slope	34	36	2.5
687	8½ miles east	Mary Collins	Dan Humpton	1935	--	10	36	1.5
688	8 miles east	George Moton	Owner	1929	Gentle slope	20	60	3
691	5½ miles east	W. M. Peyton	--	1932	Flat	12	36	1.5
692	6 miles southeast	A. Weaver	J. B. Word	1926	Gentle slope	19	--	2
693	do.	do.	--	1895	do.	17	36	3.5
d/699a	9½ miles east	Franz Thiele	Roxana Pet Co.	1927	do.	3,955	15½	--

No.	Distance from Teague	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
d/804a	In Teague	City of Teague	Layne-Texas Co	1910	--	952	9-5/8	--
806	1½ miles east	Jim Roper	-- Owens	1905	Gentle slope	37	36	3
808	2 miles north	B. P. Compton	--	--	Hillside	22	30	2
810	3½ miles northeast	Lake Watson	Floyd Rankin	1932	Hilltop	17	36	3
811	3½ miles northeast	G. W. Burleson	A. J. Johns	1930	do.	32	36	2

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
665	66.1	June 9, 1936	B,H	D,S	Bored well. Galvanized curb; 8 inch galvanized casing, top to bottom. Weak supply. Reported hard water.
667	16.2	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported hard water.
668	16.1	do.	B,H	D,S	Wood curb; no casing. Never fails. Reported soft water.
670	15.0	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Strong supply. Reported soft water.
675	5.4	do.	B,H	D,S	Wood curb; 1 foot wood casing at top. Strong supply. Reported soft water.
676	14.6	do.	B,H	D,S	Bored well. Sheet iron curb; wood casing, top to bottom. Never fails. Reported soft water.
677	60.5	do.	B,H	--	Bored well. Wood curb; wood casing, top to bottom. Weak supply. Reported soft water.
679	27.8	do.	B,H	D,S	Wood curb; 2 feet wood casing at top. Weak supply. Reported soft water.
681	8.1	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Strong supply. Reported soft water.
682	15.6	do.	B,H	D	Wood curb; wood casing, top to bottom. Strong supply. Reported soft water.
683	46.4	do.	B,H	D,S	Do.
685	34.7	do.	B,H	D,S	Wood curb; 10 feet brick casing at top. Weak supply. Reported soft water.
687	10.0	do.	B,H	D,S	Wood curb; 10 feet log casing at top. Weak supply. Reported hard water.
688	7.5	do.	B,H	D,S	Wood curb; 10 feet wood casing at top. Never fails. Reported soft water.
691	10.4	Apr. 30, 1936	B,H	--	Wood curb; wood casing, top to bottom. Strong supply. Reported soft water.
692	18.2	do.	B,H	D,S	Wood curb. Strong supply. Reported hard water.
693	12.1	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Never fails. Reported soft water.
699a	--	--	None	N	Drilled well. Oil test. See log.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
804a	--	--	--	--	Drilled water well. See log.
806	35.0	Feb. 3, 1936	B,H	D,S	Wood curb; wood casing. Strong supply. Reported hard water.
808	21.6	May 29, 1936	B,H	D,S	Brick curb; brick casing, top to bottom. Never fails. Reported hard water.
810	16.2	do.	B,H	--	Brick curb; brick casing, top to bottom. Strong supply. Reported soft water.
811	30.5	do.	B,H	--	Brick curb; brick casing, top to bottom. Weak supply. Reported soft water.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Teague	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
813	3½ miles northeast	C. D. Lindsey	--	--	Hilltop	29	6	2
814	4¼ miles northeast	Pyburn School	C. D. Lindsey	1935	Hillside	26	36	3
815	4½ miles northeast	-- Seals	--	--	Flat	21	6	1
817	4½ miles east	D. W. Terry	--	1915	do.	21	6	1
820	2½ miles east	P. R. French	Owner	1932	Hilltop	11	24	2
821	do.	do.	-- Black	1931	do.	46	6	2
824	2¼ miles southeast	Tom Blackmon	--	1915	do.	26	36	1
827	1½ miles south	-- Webb	--	1930	Flat	10	48	1
828	2 miles south	P. M. Winfrey	Owner	1925	Gentle slope	19	36	2
829	2½ miles south	Frank Baggett	--	1930	do.	21	48	3
830	do.	Marshall Harris	Owner	1925	do.	18	36	2
833	4¼ miles south	J. M. Miller	J. M. Miller	1928	Hilltop	65	6	3
835	3½ miles south	W. C. Miller	W. C. Miller	1935	Gentle slope	12	48	3
836	do.	Ed. Martin	Ed. Martin	1920	do.	16	36	4
837	3½ miles south	B. C. Gilliam	John Dean	1933	--	18	6	3
839	3½ miles southeast	Mrs. D. W. Curry	Ed Stevens	1915	Hilltop	55	36	3
841	do.	do.	--	--	do.	50	6	3
842	3½ miles southeast	Mrs. Ada Washburn	Ed Stevens	1920	Hillside	35	36	3
844	3 miles southeast	R. R. Long	Owner	1930	Gentle slope	18	36	2
847	3½ miles east	Wood Goolsby	--	--	Draw	Spring	--	0
849	4½ miles east	N. S. Curry	--	191-	Hillside	17	48	3
850	5 miles east	do.	--	1915	do.	38	48	3
851	do.	do.	Tom Calloway	1915	Hilltop	47	36	3
852	6 miles east	Tillie McDonald	--	1900	do.	29	6	1
853	do.	Minnie McDonald	-- Calloway	1915	do.	48	48	2
854	do.	do.	--	1910	do.	24	6	2
858	7 miles east	Smith Johnson	Owner	1935	Gentle slope	37	6	3

H. L. Chenault, Project Superintendent.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
813	26.5	Jan. 31, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported slightly hard water.
814	11.1	May 29, 1936	B,H	D	Brick curb; brick casing, top to bottom. Strong supply. Reported hard water.
815	12.8	Jan. 31, 1936	B,H	D,S	Bored well. Galvanized curb; 6 inch galvanized casing, top to bottom. Reported hard water.
817	10.2	Mar. 13, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom.
820	10.4	do.	B,H	D,S	Do.
821	16.9	do.	B,H	D,S	Bored well. Wood casing, top to bottom. Strong supply. Reported soft water.
824	18.8	May 15, 1936	C,W	D,S	Wood curb; 25 feet galvanized casing at top. Strong supply. Water reported from quicksand.
827	8.4	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Never fails. Reported soft water.
828	9.8	do.	B,H	D,S	Brick curb; plastered casing, top to bottom. Strong supply. Reported soft water.
829	14.4	do.	--	D,S	Wood curb; brick casing, top to bottom. Never fails. Reported hard, salty water.
830	15.5	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Strong supply. Reported hard water.
833	41.4	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported hard water.
835	12.4	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Never fails. Reported soft water.
836	15.2	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Reported originally cistern till flooded by stream. Never fails
837	11.5	Feb. 10, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported sulphur taste.
839	36.3	May 15, 1936	C,W	D,S	Brick curb; 15 feet brick casing at top. Strong supply. Reported soft water.
841	40.7	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water.
842	31.2	do.	C,W	D,S	Brick curb; brick casing, top to bottom. Strong supply. Reported soft water.
844	16.9	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Never fails. Reported soft water.
847	4.0	Feb. 5, 1936	None	--	No curb; barrel casing. Reported limited capacity in present condition.
849	17.7	Mar. 13, 1936	B,H	D,S	Brick curb; brick casing, top to bottom.
850	20.0	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Reported hard water.
851	39.5	Mar. 12, 1936	B,H	D,S	Brick curb; brickcasing, top to bottom.
852	23.6	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported fairly soft water.
853	30.4	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Strong supply. Reported soft water.
854	21.0	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported soft water.
858	25.1	Mar. 24, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported hard water.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Teague	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (ft.)	Height of measuring point above ground (ft.)a/
859	7 miles east	Oscar Johnson	---	1920	Gentle slope	60	6	2
860	7 miles southeast	Bill Moore	---	---	do.	35	36	3
861	7½ miles southeast	Bob Moore	Jerry Philpott	1930	do.	38	6	4
863	4¼ miles southeast	Ben Biggs	---	---	Hillside	25	6	2
865	4½ miles southeast	B. L. Seely	---	1915	Hilltop	59	6	3
d/865a	4½ miles southeast	R. A. Tacker	Emerald Oil Co	---	---	3,068	13⅜	---
866	5 miles south	W. M. Partin	---	1925	Hilltop	16	18	3
867	5½ miles south	do.	---	1905	Hillside	31	48	3

No.	Distance from Freestone	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)a/
872	1½ miles west	J. A. Allison	---	---	Gentle slope	33	60	3
873	1¼ miles west	J.B. Sandifer	Ed. Stevens	1925	do.	28	48	2
874	do.	W. T. Beene	do.	1925	do.	35	48	---
875	1 mile west	Mrs. Bert Wren	do.	1925	do.	22	48	3
877	½ mile northeast	John Epps	---	1925	Creek bottoms	28	6	1.5
878	2 miles northeast	A. W. Thompson	---	---	Hillside	18	6	2
879	do.	W. J. Shelly	Jim Lambert	1929	do.	32	6	3
881	do.	H. P. Norman	---	1915	do.	16	48	0.5
882	do.	--- Bowen	---	1930	Hilltop	37	6	2
884	3½ miles northeast	Henry Daniels	---	1930	Gentle slope	40	6	2
885	4½ miles east	F. Peterson	Oscar Johnson	1932	Hillside	7	36	2.5
887	5 miles east	Alice Jerden	Cotters Baty	1920	Hilltop	27	48	1
888	6 miles east	Gilliam Poindexter	Ben Black	1933	do.	71	6	2.5
893	1¾ miles east	L. E. Baty	Owner	1933	Gentle slope	16	36	2.5
894	do.	do.	Mike Beasley	1929	do.	45	6	1

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
859	40.5	Mar. 24, 1936	B,H	D,S	Bored well. Wood casing, top to bottom. Reported hard water. Never fails.
860	30.3	do.	B,H	D,S	Wood curb; 20 feet brick casing at top. Reported hard water.
861	34.2	do.	B,H	D,S	Bored well. Wood curb and casing, top to bottom. Reported hard water.
863	12.4	Mar. 11, 1936	B,H	D,S	Bored well. Wood curb and casing, top to bottom. Strong supply. Reported soft water.
865	39.7	do.	B,H	D,S	Bored well. Wood curb and casing, top to bottom. Strong supply. Reported hard water.
865a	---	---	None	N	Drilled well. Oil test. See log.
866	17.6	May 15, 1936	B,H	D,S	Brick curb; brick casing, top to bottom. Reported originally cistern until flooded by stream. Weak supply.
867	28.8	do.	B,H	D,S	Brick curb; 10 feet brick casing at top. Strong supply. Reported soft water.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
872	28.6	Feb. 24, 1936	B,H	---	Brick curb; 10 feet brick casing at top. Never fails. Reported water from soapstone.
873	25.3	May 15, 1936	B,H	D,S	Brick curb; brick casing, top to bottom. Strong supply. Reported soft water.
874	30.8	do.	C,W	D,S	Do.
875	16.2	do.	B,H	D,S	Do.
877	9.4	Mar. 11, 1936	C,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported hard water.
878	12.2	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported hard water.
879	27.9	do.	B,H	D,S	Do.
881	10.6	do.	C,H	D,S	Brick curb; brick casing, top to bottom. Reported hard water.
882	33.0	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported soft water.
884	32.6	Mar. 24, 1936	B,H	D,S	Bored well. Wood curb; wood casing, top to bottom. Reported hard water.
885	3.1	Mar. 25, 1936	B,H	D,S	Wood curb; rock casing, top to bottom. Strong supply. Nearly faills in summer. Reported soft water.
887	9.4	Mar. 24, 1936	B,H	D,S	Rock curb and casing, top to bottom. Never fails. Reported soft water.
888	62.9	Mar. 25, 1936	B,H	D,S	Bored well. Wood curb; wood casing. Reported hard water.
893	14.7	Mar. 17, 1936	B,H	D	Brick curb; brick casing, top to bottom. Never fails Reported soft water.
894	28.7	do.	B,H	D,S	Bored well. Wood curb and casing, top to bottom. Strong supply. Reported hard water.

Records of wells and springs in Freestone County--Continued.

No.	Distance from Freestone	Owner	Driller	Date completed	Topographic situation	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
897	1¾ miles southwest	D. F. Farrell	---	1932	Gentle slope	16	36	⅔
898	2 miles southwest	Doyle Newsome	Owner	1916	do.	33	36	2
901	3½ miles south	Alvis Harris	---	---	Hillside	22	60	3

a/ Measuring point was susually top of casing, top of pump base, or top of well curb.
b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

H. L. Chenault, Project Superintendent.

No.	Water Level: Depth below measuring point (feet)	Water Level: Date of measurement	Pump and power b/	Use of water c/	Remarks
897	11.8	Feb. 24, 1936	B,H	D,S	Brick curb and casing.
898	23	do.	C,G,3	D,S	Brick curb and casing, top to bottom. Water reported from sand rock. Strong supply.
901	21.6	do.	B,H	D,S	Brick curb and casing, top to bottom. Strong supply. Reported soft water.

c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used.
d/ No water sample collected for analysis.
e/ Water level reported.

Table of Drillers' Logs, Freestone County, Texas

	Thickness (feet)	Depth (feet)
Well 14a		
John W. Hooser, Jos. Nussbaum, et al, lease. 5 miles east of Wortham.		
Surface	27	27
Water sand	11	38
Shale	7	45
Hard shale	95	140
Shale	180	320
Hard shale and boulders	370	690
Shale and boulders	256	946
Sticky shale	62	1008
Gumbo	4	1012
Black sand	9	1021
Sticky shale	34	1055
Gumbo	20	1075
Sticky shale	71	1246
Hard lime shale	26	1272
Gummy shale	112	1384
Sticky shale	21	1405
Gumbo	9	1414
Sticky shale	273	1687
Broken sand	29	1716
Shale and boulders	72	1788
Sticky shale	6	1794
Dry sand	8	1802
Shale and boulders	194	1996
Sticky shale	22	2018
Shale and boulders	86	2104
Sticky shale	162	2266
Hard sandy shale	14	2280
Sticky shale	90	2370
Hard shale and shell	1	2371
Dry sand	4	2375
Broken sand and shale	22	2397
Hard shale	22	2419
Dry sand	8	2427
Marl	29	2456
Sandy shale	54	2510
Lime rock	11	2521
Marl	21	2542
Shale	47	2589
Chalk and hard brown lime	14	2603
Broken lime and shale, showing some chalk	18	2621
Hard chalk	12	2633
Broken chalk	12	2645
Hard chalk	40	2685
Chalk	15	2700
Broken chalk	21	2721
Chalk	16	2737
Hard shale and lime shell	43	2780
Soft chalk	46	2826
Shale and lime shells	56	2882
Shale	40	2922
Shale, pyrites, and boulders	42	2964
Shale	34	2998

	Thickness (feet)	Depth (feet)
Well 14a--Continued		
Ring shale	2	3000
Sticky shale	12	3012
Shale	4	3016
Shale and shell	4	3020
Shale	8	3028
Sticky shale	12	3040
Shale and lime shells	65	3105
Sandy shale	45	3150
Sticky shale	59	3209
Sandy shale	4	3213
Shale	67	3280
Shale and lime shell	5	3285
Sticky shale	4	3289
Hard sand and lime shell	3	3292
Sand	6	3298
Sand, shale, streaks of lime	24	3322
Water sand	7	3329
TOTAL DEPTH		3329
Well 67a		
J. S. Cosden Co., J. E. Woods lease, 5 miles south of Kirvin.		
Surface sand	3	3
Surface sand and clay	92	95
Sand	3	98
Shale	176	274
Shale and sand	153	427
Sticky shale	60	487
Gumbo	30	517
Hard shale	18	535
Lime rock	1	536
Sticky shale	14	550
Gumbo	30	580
Sticky shale	60	640
Gumbo	42	682
Gumbo and boulders	45	727
Hard shale and boulders	85	812
Gumbo and boulders	20	832
Sticky shale	57	889
Hard shale and boulders	91	980
Shale	35	1015
Gumbo and boulders	72	1087
Hard shale and boulders	38	1125
Gumbo	30	1155
Shale and boulders	90	1245
Shale and lime	55	1300
Shale and boulders	40	1340
Sticky shale	70	1410
Sticky shale and shells	85	1495
Shale	5	1500
Gumbo	15	1515
Hard shale	29	1544
Sand rock	1	1545
Sandy lime and pyrite	1	1546
Hard shale	13	1559

(Continued on next page)

Table of Drillers' Logs, Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 67a--Continued		
Lime and pyrite	3	1562
Gumbo	8	1570
Hard sandy shale	11	1581
Sandy shale	10	1591
Sticky shale	30	1621
Sandy shale	45	1666
Gumbo	14	1680
Shale	48	1728
Gumbo	42	1770
Hard shale	30	1800
Hard sandy shale and lime	6	1806
Gumbo	2	1808
Tough gumbo	42	1850
Hard shale	45	1895
Gumbo	26	1921
Shale	44	1965
Sticky shale	20	1985
Sticky shale and gumbo	65	2050
Tough gumbo	35	2085
Gumbo	10	2095
Hard shale	10	2105
Gumbo	35	2140
Hard shale	20	2160
Gumbo	17	2177
Sticky shale	48	2225
Lime rock	2	2227
Hard shale and boulders	13	2240
Sticky shale	60	2300
Shale	41	2341
Sticky shale	89	2430
Lime rock	3	2433
Hard sand	46	2479
Hard sandy shale	51	2530
Gumbo and gypsum	30	2560
TOTAL DEPTH		4226

Well 203a

Bert Fields Co., E. E. Lamb lease. 2¾ miles south of Streetman.

Sand and shale	102	102
Gumbo and shale	475	577
Gummy shale	463	1040
Gray sand	15	1055
Shale	74	1129
Sandy shale and hard shale	451	1580
Sandy shale	194	1774
Broken chalk	90	1964
Red bed	18	1982
Sticky shale	230	2212
Sandy shale	318	2530
Gumbo	20	2550
Broken chalk	32	2582
Austin chalk	40	2622
Chalk	74	2696
Austin chalk	304	3000
Chalk	24	3024
Shale	12	3036
Sand, ash, and iron	22	3058
Hard sand and shells	2	3060
Shale and shells	70	3130
Shale P. C.	6	3136
Hard clay and iron stone	1	3137
Hard shale	11	3148
Shale streaks	18	3166
Soft shale	18	3184
Shale with sand streaks, gray and flakey	18	3202
TOTAL DEPTH		3503

Well 210a

Neversuch Oil Co., Oliver Burleson lease. 4½ miles southeast of Streetman.

Sandy shale	25	25
Shale	15	40
Sticky shale	6	46
Shale and sand	34	80
Sandy lime shell	3	83
Sandy shale	40	123
Sandy lime shell	5	128
Shale	262	390
Shale and shell	289	679
Shell	1	680
Shale with shell streaks and boulders	277	957
Lime shell	2	959
Shale	78	1037
Cored		1037
Sticky shale	156	1193
Shale and shells	60	1253
Sandy shale	14	1267
Sticky shale	380	1647
Broken formation	4	1651
TOTAL DEPTH		3733

Well 282a

Peyton Bros., Ernest Beauchamp lease. 3½ miles north of Fairfield.

Hard clay streaks	10	10
Sand	20	30
Sandy shale	27	57
Sand and boulders	18	75
Lignite	4	79
Sandy shale	29	108
Shale	4	112
Rock	1	113
Shale	17	130
Sand	26	156
Shale	34	190
Hard sand	5	195

(Continued on next page)

Table of Drillers' Logs, Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 282a--Continued		
Shale and sand streaks	53	248
Sandy shale	42	290
Rock	5	295
Sand	40	335
Rock	4	339
Shale and boulders	261	600
Shale	50	650
Rock	2	652
Shale boulders	198	850
Rock	2	852
Shale	156	1008
Shale and shells	192	1200
Hard shale and boulders	135	1335
Hard shale	25	1360
Hard sandy shale	140	1500
Shale	100	1600
Hard shale and shells	71	1671
Shale	69	2140
Hard shale and shells	469	2213
Shale	199	2412
Chalk	25	2437
Hard chalk	37	2474
Pecan gap chalk	31	2505
Pecan chalk	81	2586
Shale	9	2694
Shale and chalk rock	82	2776
Shale	19	2794
Shale and chalk rock	40	2824
Hard shale and broken chalk	212	3036
Sand	7	3043
Shale and lime shells	168	3211
Shale and shells	125	3336
Broken lime	17	3353
Sandy shale	9	3362
Austin chalk	43	3405
TOTAL DEPTH		4403

Well 312

Layne-Texas Co., City of Fairfield Well No. 1. In city of Fairfield.

Surface soil	1	1
Clay	12	13
Clay and sand breaks	18	31
Clay	15	46
Sand and clay	23	69
Shale and streaks of sand	27	96
Shale	6	102
Lignite and shale	5	107
Shale	30	137
Hard shale	6	143
Sandy shale	6	149
Rock	1	150
Hard shale	9	159
Sand	7	166
Sandy shale	13	179
Hard shale	49	228
Sandy shale	12	240
Hard shale	27	267
Sandy shale	41	308
Hard shale	12	320
Hard shale and sand streaks	11	331
Rock	2	333
Hard shale	8	341
Hard shale and sand streaks	24	365
Sandy shale	10	375
Sand	24	399
Hard rock	1	400
Sand and shale	5	405
Shale	4	409
Sandy shale	17	426
Sand	10	436
Hard shale	9	445
Sandy shale	52	497
Shale	66	563
Sandy shale	33	596
Shale	16	602
TOTAL DEPTH		602

CASING RECORD: 366 feet of 12½ inch casing. 251 feet of 6-inch casing lapped 60 feet into bottom of 12½-inch casing. Screen set: 366-389, 406-427 and 500-557 feet. 24 feet of 6-inch set nipple, back pressure valve, and plug on bottom of 6 inch.

Well 417

E. G. Rector Survey, NW corner J. S. Cullinan lease, 7¼ miles northeast of Young.

Surface clay	232	232
Sand and shell	86	318
Sandy lime	5	323
Sand	47	370
TOTAL DEPTH		370

Well 417a

Amerada Petroleum Corp., Hettie Berk lease. 7¾ miles northeast of Young.

Surface clay	33	33
Shale and sand	391	424
Sand and shale	96	520
Broken sand	20	540
Sand rock	2	542
Shale	33	575
Sand rock	2	577
Shale	92	669
Shale and streaks of sand	41	710

(Continued on next page)

Table of Drillers' Logs, Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 417a--Continued		
Shale and shells	185	895
Shale and boulders	20	915
Shale	4	929
Sand and shale	21	950
Sticky shale and shells	125	1075
Sand, shells, and shale	90	1165
Rotten shale	68	1233
Shale and shells	241	1474
Shale	226	1600
Sticky shale	75	1675
Shale	27	1702
Sandy shale	28	1730
Hard sand	4	1734
Sandy shale	20	1754
Shale and shells	96	1850
Shale	125	1975
Sticky shale	125	2100
Black shale	50	2150
Sticky shale and streaks of chalk	35	2185
Chalk and streaks of shale	173	2358
Chalk and shale	147	2405
Shale	125	2530
TOTAL DEPTH		4025

CASING RECORD: 642 feet of 10¾-inch casing. 4018 feet of 7-inch casing. 4022 feet of 2½-inch tubing.

Well 553a

Humble Oil and Refining Co., H. R. Dietz lease. 7½ miles east of Butler.

Clay	22	22
Soft sand	13	35
Hard white shells	2	37
Soft sand	38	75
Hard sand	153	228
Sand	77	305
Shale	35	340
Sand	88	428
Shale	15	443
Brown sand	341	784
Black shale	28	812
Sand	100	912
Shale and shells	112	1024
Sand	91	1115
Hard sand	175	1290
Shale	110	1300
Shale and lime	100	1400
Sand	100	1500
Sand and shale	47	1547
Hard w hite sand	5	1552
Broken sand and shale	54	1606
Hard sand	50	1656
Sand and shale	50	1706
Shale	28	1734
Hard sand	66	1800
Sandy shale and shells	100	1900
Shale and lime	75	1975
Shale and shells	100	2075
Shale	115	2190
Sandy shale	45	2235
Hard white sand	10	2245
Shale	5	2250
Shale and shells	50	2300
Sand and shale	205	2505
Shale	260	2765
Shale and lime	100	2865
Shale	628	3493
Pecan gap chalk	147	3640
TOTAL DEPTH		5590

Well 600a

J. L. Collins Co., Wm. R. Boyd, Jr. lease, 6 miles northwest of Dew.

Sand and clay	50	50
Sandy shale	70	120
Shale and shell	150	270
Water sand	45	315
Sandy shale	161	476
Sand rock	3	479
Shale	21	490
Shale and boulders	5	795
Shale and shell	325	1120
Hard sandy shale	160	1280
Shale and shell	258	1538
Shale	335	1873
Broken sand and shale	65	1938
Shale and shell	98	2036
Sticky shale	46	2082
Shale	762	2744
Pecan chalk	16	2760
TOTAL DEPTH		4507

Well 644a

Sun Oil Company, Minyard White lease. 2¼ miles northeast of Dew.

Surface	12	12
Clay and shale	55	67
Shale	5	72
Sandy shale	44	116
Sandy shale and lignite	12	128
Sand and shale	77	205
Sandy shale	75	280
Sandy shale and lignite	31	311
Rock	2	313
Shale and lignite	19	332
Sand	7	339
Sand and shale	55	394

(Continued on next page)

Table of Drillers' Logs, Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 644a--Continued		
Sticky shale	51	445
Sand and shale	49	494
Sand	166	660
Sandy shale	90	750
Lignite	2	752
Sandy shale	48	810
Rock	2	812
Sandy shale	28	940
Sand	40	980
Shale and boulders	120	1100
Rock	2	1102
Shale	88	1190
Sand	2	1192
Shale and boulders	48	1240
Sticky shale and lime	20	1360
Shale and lime shells	105	1465
Shale and boulders	220	1685
Sticky shale	20	1705
Shale and boulders	20	1725
Shale	4	1729
Rock	1	1730
Sticky shale and boulders	100	1830
Shale	288	2118
Hard shale	16	2134
Shale	5	2139
Rock	41	2180
Shale	25	2205
Sticky shale	20	2225
Shale	45	2270
Sticky shale	5	2275
Shale and shells	252	2527
Shale	439	2966
Chalk	47	3013
Shale and chalk	192	3205
Shale	60	3265
Hard shale and boulders	163	3428
Shale	169	3597
Shale and lime shells	150	3747
Shale	170	3917
Chalk	46	3963
TOTAL DEPTH		4762

Well 699a

Roxana Petroleum Corp., Franz Thiele lease. 10 miles southeast of Dew.

Surface sand	45	45
Sand and lignite	35	80
Hard and soft sand	69	149
Sand	31	180
Shale	20	200
Sand and shale, broken	30	330
Sticky shale and boulders	23	353
Lime shell	1	354
Shale	35	389
Sand rock	4	493
Hard sandy shale	51	544
Hard sand	30	574
Packed sand	6	580
Gumbo	7	587
Hard sandy shale	83	670
Lime	1	671
Sandy lime	3	674
Sandy lime and pyrites	4	678
Sandy lime	2	680
Sand	62	742
Shale	18	760
Sand	35	795
Sticky shale and boulders	149	944
Lime	2	946
Sticky shale	49	994
Packed sand	60	1054
Sand	56	1110
Sticky shale and boulders	20	1130
Sand	24	1154
Sticky shale	51	1200
Took SLM at 1160 feet.		
Lime	1	1206
Sticky shale	94	1300
Broken sand,shale, pyrites	130	1430
Lime	3	1433
Sticky shale	99	1532
Water sand	5	1537
Sticky shale	10	1547
Sand	33	1580
Sticky shale	29	1609
Lime	1	1610
Sand	70	1680
Sticky shale	29	1709
Shale	6	1715
Lime	1	1716
Shale	25	1741
Sandy shale	61	1802
Lime	1	1803
Sandy shale	47	1850
Sticky shale	25	1875
Hard sand	28	1903
Hard sandy shale	86	1989
Hard sand	6	1995
Broken shale,sand,and lime	20	2015
Sandy shale	15	2030
Sticky shale	49	2079
Sticky shale and boulders	60	2139
Sandy shale	26	2165
Sticky shale	15	2180
Sandy shale and boulders	44	2224
Lime	1	2225
Sticky shale and boulders	125	2350
Broken lime	20	2370
Sticky shale	7	2377
Shale and boulders	80	2457

(Continued on next page)

Table of Drillers' Logs, Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 699a--Continued		
Sticky shale and boulders	74	2531
TOTAL DEPTH		3955
Well 810a		
Layne-Texas Co., City of Teague Well No. 1. In city of Teague.		
Clay	7	7
Sandy rock	10	17
Clay	18	35
Sand	72	107
Blue clay	3	110
Sand	9	119
Lignite	5	124
Shale with hard layers	27	151
Rock	2	153
Coal	2	174
Hard shale and layers of sandy clay	81	255
Fine blue sand	21	276
Shale	20	296
Rock	2	298
Gumbo with hard layers	21	319
Rock	3	322
Gumbo	20	342
Clay and boulders	23	365
Rock	2	367
Gumbo	16	383
Rock	4	387
Hard shale	31	418
Clay and gravel	8	426
Gumbo	27	453
Rock	2	455
Gumbo	18	473
Fine muddy sand	16	489
Blue clay and sand	16	505
Hard sandy clay	25	530
Rock	2	532
Gumbo with layers of sandy clay	76	608
Rock	1	609
Shale and gumbo	91	700
Fine blue sand	12	712
Shale	20	732
Rock	4	736
Soft clay	16	752
Sandy clay	5	757
Shale and gumbo	195	952
TOTAL DEPTH		952
Well 865a		
Emerald Oil Co., R. A. Tacker lease. 5 miles southeast of Teague.		
Surface sand	1	1
Clay	68	69
Sand	7	76
Well 865a--Continued		
Water sand	2	78
Gravel and clay	37	115
Gravel	6	121
Shale	16	137
Sandy shale	24	161
Gumbo and shale	21	182
--	9	191
Shale and boulders	30	221
Sandy shale	45	266
Gumbo	5	271
Shale	51	322
Gumbo	12	334
Sand rock	1	335
Shale and sand	35	370
Gumbo	10	380
Shale	40	420
Gumbo	20	440
Sand and shale	20	460
Sand rock	2	462
Shale and gumbo	38	500
Gumbo	8	508
Packed sand	52	560
Shale	20	580
Shale and boulders	10	590
Hard sand and shale	6	596
Water sand	17	613
Sand rock	2	615
Shale and boulders	60	675
Shale	15	690
Gumbo	5	695
Sand and shale	5	700
Shale	45	745
Soft sand rock	2	747
Gumbo	8	755
Shale	2	757
Gumbo	4	761
Shale and boulders	15	776
Sand rock	7	783
Hard sand	5	788
Sandy slate	20	808
Gumbo	28	836
Red sand	1	837
Shale and boulders	30	867
Hard broken sand	3	870
Quicksand and gravel	12	882
Gumbo	8	890
Sand and shale	15	905
Shale and sand	6	911
Gumbo	12	923
Sand, shale, and boulders	27	950
Rock	1	951
Steel line measurement.		
Gumbo	3	954
Sand, shale, and boulders	32	986
Gumbo	15	1001
TOTAL DEPTH		3068

Logs of test wells drilled by W. P. A. labor in Freestone County, Texas
Samples examined and classified by H. L. Chenault,
Project Superintendent

	Thickness (feet)	Depth (feet)
Well 1		
Side of Highway 14, 100 yards south of county line, south corner Oscar Bounds 3 acre tract, 2 miles north of Wortham.		
Black sandy clay	1	1
Gray sandy clay	4	5
Sticky gray and yellow clay	2	7
Sticky gray clay	4	13
Rock		13
No water sample collected. May 20, 1936.		
Well 2		
North side of Highway 14, John P. Stubbs tract, ¼ mile north of Wortham.		
Brown sandy clay	2	2
Yellow sandy clay	4	6
Gray and yellow sandy clay	12	18
Gray sandy soapstone	4	22
Blue soapstone and shale	8	30
No water sample collected. May 20, 1936.		
Well 3		
Side of draw, center west line N. H. Lindley 13 acre tract, 1½ miles south of Wortham.		
Stiff orange colored clay	1	1
Stiff brown clay	1	2
Brown sandy clay	1	3
Coarse yellow sand	1	4
Brown sand and clay	2	6
Coarse yellow sand	2	8
Yellow silty sand	4	12
Brown silty sand	1	13
Coarse yellow sand	1	14
Coarse brown sand	2	16
Coarse yellow sand	6	22
Coarse blue sand	1	23
Rock		23
Struck water at 19 feet.		
Water sample collected. May 20, 1936.		
Well 4		
Gentle slope, side of road near J. M. Bounds tract, 3/4 mile southeast of Wortham.		
Stiff yellow clay	4	4
Yellow packed sand	11	15
Gray and yellow sand	2	17
Yellow sand	1	18
Gray and yellow sand	2	20
Rock		20
Struck water at 18.5 feet.		
Water sample collected. May 7, 1936.		
Well 5		
Gentle slope, J. H. Bounds tract, 2½ miles south of Wortham.		
Brown surface sand	1	1
Stiff brown clay	1	2
Stiff yellow clay	1	3
Packed yellow sand	2	5
Packed brown, yellow sand	3	8
Yellow soapstone	2	10
Gray soapstone	4	14
Blue shale	1	15
Blue and yellow shale	3	18
Blue shale	3	21
Hard shale		21
No water sample collected. May 7, 1936.		
Well 6		
Slope, J. M. Bounds tract, 2¼ miles southeast of Wortham.		
Stiff gray sandy clay	3	3
Gray and yellow sandy clay	3	6
Gray and yellow packed sand	2	8
Gray and yellow soapstone	8	16
Gray soapstone	2	18
Yellow soapstone and packed sand	1	19
Hard packed sand		19
No water sample collected. May 7, 1936.		
Well 7		
Gentle slope, W. G. Ross tract, 4½ miles south of Wortham.		
Brown silty sand	1	1
Stiff brown clay	2	3
Tough gray and yellow clay	15	18
Hard clay		18
No water sample collected. June 5, 1936.		
Well 8		
Hillside, Felix Keys tract, 5 miles east of Wortham.		
Stiff brown clay	1	1
Yellow sandy clay	2	3
Yellow clay and packed sand	6	9
Gray clay and sand	2	11
Yellow silty sand	3	14
Gray silty sand	1	15
Yellow clay and sand	1	16
Gray clay and packed sand	3	19
Brown clay and sand	1	20
Gray packed sand	1	21
Brown clay and sand	2	23
Rock		23
No water sample collected. June 5, 1936		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 9		
Creek bottoms, Jno. C. Kirren Estate, 3-3/4 miles south of Wortham.		
Brown surface sand	2	2
Brown clay and sand	1	3
Stiff black clay	3	6
Brown sandy clay	3	9
Brown clay and sand	2	11
Brown sandy clay	4	15
Stiff brown and gray clay	4	19
Gray and yellow sandy clay	2	21
Rock		21
Struck water at 10 feet.		
Water sample collected. May 7, 1936.		
Well 11		
Hillside, J. J. Stubbs tract, 2½ miles east of Wortham.		
Stiff yellow clay	3	3
Gray and yellow sandy clay	9	12
Gray and yellow sandy soapstone	4	16
Gray and yellow sandy shale	2	18
Gray shale	3	21
Blue shale	2	23
Rock		23
No water sample collected. May 20, 1936		
Well 12		
Beside draw, J. J. Stubbs tract, 4¼ miles east of Wortham.		
Brown surface sand	3	3
Brown clay and sand	4	7
Stiff brown clay	5	12
Stiff brown and yellow clay	2	14
Gray sandy clay	2	16
Gray clay and sand	2	18
Blue and yellow clay	3	21
Stiff blue clay	1	22
Struck water at 15 feet.		
Water sample collected. May 20, 1936.		
Well 13		
Hillside, T. J. Red tract, 3¼ miles east of Wortham.		
Yellow sandy clay	2	2
Yellow clay and sand	2	4
Yellow gravelly clay, sand	5	9
Rock		9
No water sample collected. May 22, 1936		
Well 14		
Creek bottoms, Jos. Nussbaum tract, northeast corner of S. A. Sweet Survey, 5 miles east of Wortham.		
Black sandy clay	2	2
Stiff black clay	1	3
Stiff gray clay	2	5
Yellow gravelly clay	3	8
Yellow sticky clay	6	14
Stiff yellow clay	7	21
Blue shale	1	22
Hard blue shale		22
No water sample collected. May 22, 1936		
Well 15		
Gentle slope, J. P. Jackson tract, near Streetman road, ½ mile south of county line, 5½ miles northeast of Wortham.		
Brown surface sand	1	1
Stiff yellow clay	1	2
Stiff gray clay	1	3
Stiff yellow clay	6	9
Yellow sandy clay	9	18
Stiff gray and yellow clay	3	21
Hard clay		21
No water sample collected. May 22, 1936		
Well 16		
Hillside, F. A. Coleman and J. Cooper tract, 7 miles northeast of Wortham.		
Stiff black clay	3	3
Gray sandy clay	4	7
Stiff gray and yellow clay	7	14
Gray soapstone	1	15
Blue soapstone	2	17
Gray and yellow soapstone	2	19
Rock		19
No water sample collected. May 22, 1936		
Well 17		
Creek bottoms, F. A. Coleman tract, J. Sparks Survey, 7½ miles east of Wortham.		
Brown clay and sand	1	1
Black sand and clay	4	5
Gray clay and sand	1	6
Brown sandy clay	3	9
Stiff brown clay	6	15
Gray and yellow sand	8	23
Blue clay	1	24
Struck water at 15 feet.		
Water level 10.8 feet below top of ground, 24 hours after hole completed.		
Water sample collected. April 20, 1936.		
Well 18		
Gentle slope, Soggy Chancellor tract, ¼ mile east of Railroad in J. Mathews Survey, 8½ miles east of Wortham.		
Brown surface sand	1	1
Stiff brown clay	2	3
Stiff blue sandy clay	1	4
Gray sandy clay	1	5

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 18--Continued		
Gray and yellow sandy clay	1	6
Yellow clay and sand	1	7
Gray clay and sand	1	8
Yellow silty sand	3	11
Gray packed sand	2	13
Hand packed sand		13
No water sample collected. Apr. 20, 1936		
Well 19		
Hillside, M. H. Harris tract, west of railroad in J. F. McGuffin Survey, 7 miles east of Wortham.		
Brown surface sand	1	1
Coarse yellow sand	2	3
Red and white sandy clay	3	6
Red sandy clay	2	8
Coarse red and white sand	3	11
Coarse red sand	1	12
Coarse yellow sand	1	13
Coarse yellow and white sand	4	17
Struck water seep at 3 feet.		
No water sample collected. Apr. 20, 1936		
Well 20		
Gentle slope, Burleson Church tract, 3½ miles northeast of Kirvin on Streetman road, 9½ miles east of Wortham.		
Brown surface sand	2	2
Brown sandy clay	1	3
Stiff yellow clay	2	5
Gray and yellow sandy clay	1	6
Coarse gray sand	1	7
Gray and yellow sandy clay	1	8
Gray sandy clay	3	11
Brown soapstone	1	12
Gray and yellow sandy clay	3	15
Yellow silty sand	8	23
Gray clay and sand	1	24
Yellow sandy clay	4	28
Gray clay and packed sand	1	29
Grey and yellow clay and packed sand	1	30
Black sand	1	31
Black sandy lignite	1	32
No water sample collected. Mar. 23, 1936		
Well 21		
In draw, F. Marberry tract, 1¼ miles northeast of Kirvin.		
Yellow clay and sand	2	2
Brown sand and clay	1	3
Brown sandy clay	3	6
Yellow sand	5	11
Rock		11
No water sample collected May 21, 1936		

	Thickness (feet)	Depth (feet)
Well 22		
Hillside slope, M. H. Harris tract, 3/4 mile northwest of Kirvin.		
Brown sand	1	1
Red clay and sand	1	2
Yellow sandy clay	2	4
Stiff yellow clay	2	6
Yellow clay and sand	9	15
Brown clay and sand	3	18
Soapstone		18
No water sample collected. Mar. 9, 1936		
Well 26		
Gentle slope near creek, Mrs. Ruth Laney tract, 1 mile south of Kirvin.		
Yellow sand	1	1
Yellow sandy clay	1	2
Brown sand and clay	2	4
Gray clay and sand	2	6
White silty sand	9	15
Yellow silty sand	2	17
White silty sand	1	18
Yellow sand and gray soapstone	1	19
Yellow sand	3	22
Yellow sand and gray soapstone	1	23
Gray sand	1	24
Yellow sand	5	29
No water sample collected. Mar. 9, 1936		
Well 29		
Creek bottoms, Gilliams Poindexter tract, 1½ miles west of Kirvin.		
Brown surface sand	1	1
Blue sandy clay	1	2
Coarse yellow sand	2	4
Coarse gray sand	2	6
Gray and yellow sandy clay	4	10
Gray clay and sand	5	15
Coarse gray and yellow sand	2	17
Gray sand	5	22
Blue sand	7	29
Struck water at 6 feet.		
Water sample collected. Mar. 23, 1936		
Well 31		
Hilltop, L. C. Carter tract, 1-3/4 miles west of Wortham.		
Stiff red clay	2	2
Red and yellow sand and clay	2	4
Yellow silty sand	7	11
White silty sand	2	13
Yellow and white sand	6	19
Yellow sand	1	20
White sand	10	30

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 31--Continued		
Gray sand	2	32
Stiff yellow clay	1	33
Struck water at 30 feet.		
Water sample collected. May 20, 1936.		

Well 32

Gentle slope, Ransom Stallworth tract, 2-3/4 miles west of Kirvin.

Brown surface sand	1	1
Red clay and brown sand	1	2
Stiff red clay	1	3
Red and yellow sandy clay	1	4
Yellow sand and clay	2	6
Yellow sandy clay and soapstone	6	12
No water sample collected. Mar. 23, 1936		

Well 34

Gentle slope near draw, Alderman Bros. tract, 3-3/4 miles west of Kirvin.

Brown sandy clay	2	2
Brown packed sand	1	3
Yellow clay and sand	1	4
Yellow silty sand	3	7
Brown silty sand	2	9
White silty sand	5	14
Yellow silty sand	5	19
Gray silty sand	3	22
Yellow silty sand	2	24
Blue water sand	5	29
Struck water at 24 feet.		
Water level, 22.5 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 10, 1936		

Well 39

Creek bottoms, B. F. Robertson tract, 4 miles southwest of Kirvin.

Brown sand	2	2
Red and yellow sandy clay	1	3
Stiff yellow clay	1	4
Yellow clay and sand	2	6
Yellow iron ore gravel	3	9
Rock		29
No water sample collected. Mar. 10, 1936		

Well 42

Level land, Kaiser Kuyaca tract, 5½ miles southwest of Kirvin.

Black gravel and sand	1	1
Brown sand	1	2
Red sandy clay	2	4
Yellow sand and clay	2	6
Yellow packed sand	1	10
Hard packed sand		10
No water sample collected. Mar. 10, 1936		

Well 47

Creek bottoms, S. H. Smith tract, 6½ miles southwest of Kirvin.

Brown sand	2	2
Brown packed sand	3	5
Hard packed sand		5
No water sample collected. Mar. 5, 1936		

Well 50

Level, near Clay McKinney tract, on highway 2,000 feet east of county line, 7½ miles southwest of Kirvin.

Brown sand	2	2
Yellow clay	1	3
Yellow sand and clay	3	6
Coarse, light yellow sand	5	11
Yellow sand	4	15
Gray and yellow sand	8	23
Struck water at 15 feet.		
Water level, 11.7 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Mar. 3, 1936.		

Well 54

Gentle slope near draw, on State Highway No. 7, 7½ miles southeast of Kirvin.

Brown sand	1	1
Brown sandy clay	1	2
Yellow sandy clay	2	4
Yellow and red sandy clay	2	6
Rock		6
No water sample collected. Feb. 20, 1936		

Well 55

Level land, on State Highway 7, 1.9 miles east of county line, 7 miles southwest of Kirvin.

Brown sand	1	1
Brown sand and gray clay	4	5
Yellow clay and sand	2	7
Iron ore gravel	1	8
Coarse yellow sand	4	12
Coarse gray sand	1	13
Coarse yellow sand	6	19
Yellow sand and gray soapstone	7	26
Fine yellow sand	3	29
No water sample collected. Mar. 5, 1936		

Well 57

Hillside, M. C. Tyner tract, M. R. Alston Survey, 1½ miles south of State Highway No. 7, 8 miles southwest of Kirvin.

Red and white sand and clay	3	3
Gray clay and sand	5	8
Brown clay and sand	2	10

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 57--Continued		
Gray and yellow sand and clay	3	13
Gray and brown sand and soapstone	6	19
No water sample collected. June 5, 1936.		

Well 58

Level land, Peter Beyer tract, I. Musick Survey, 1½ miles northwest of Limestone Switch on T. & B. V. RR. 8½ miles south of Kirvin.

Stiff brown clay	3	3
Brown sandy clay	4	7
Yellow silty sand	6	13
Gray sand	1	14
Brown clay and sand	13	27
Gray silty sand	2	29
Brown silty sand	1	30
Yellow sand	4	34
No water sample collected. June 5, 1936.		

Well 61

Gentle slope, near creek on Highway No. 7, 7 miles south of Kirvin.

Brown sand	1	1
Brown and gray sandy clay	3	4
Gray sandy clay	1	5
Gray and yellow sandy clay	2	7
Coarse yellow sand	4	11
Gray sand	1	12
Yellow clay and sand	1	13
Sandy clay	2	15
Fine white sand	4	19
Fine yellow silty sand	10	29
No water sample collected. Feb. 20, 1936		

Well 66

Gentle slope, on county road opposite northeast corner of Cotton Gin Cemetery 6 miles south of Kirvin.

Brown sand and rock	2	2
Yellow sand	2	4
Yellow sandy clay	2	6
Yellow sand	4	10
Yellow sand and gray soapstone	1	11
Gray soapstone	2	13
Gray sand and soapstone	1	14
Yellow sand	4	18
Brown iron ore sand	1	19
White silty sand	4	23
Yellow silty sand	6	29
No water sample collected. Mar. 3, 1936		

Well 69

Gentle slope, W. W. Ford tract, 4½ miles south of Kirvin.

Brown sand	3	3
Yellow sandy clay	1	4
Gray sandy clay	1	5
Gray and yellow sandy clay	2	7
Gray sand	3	10
Gray sandy clay	1	11
Yellow sand	5	16
Brown sandy clay	1	17
Soft gray clay	1	18
Soft purple clay	1	19
Gray sand	1	20
Black clay		20
Struck water at 20 feet.		
Water level, 19.3 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 9, 1936.		

Well 70

Level land, J. J. Ausley tract, 4½ miles south of Kirvin.

Brown sand	1	1
Yellow sand	1	2
Red and gray sandy clay	2	4
Gray sandy clay	4	8
Gray sand	7	15
Coarse gray and yellow sand	3	18
Gray soapstone	3	21
Gray and yellow sandy soapstone	2	23
Yellow silty sand	6	29
No water sample collected. Mar. 7, 1936		

Well 78

Gentle slope near creek, side of county road, 3½ miles north of Simsboro, 30 yards west of B & R RR., 2-3/4 miles south of Kirvin.

Red and yellow sandy clay	2	2
Yellow sandy clay	3	5
Yellow clay and packed sand	3	8
Yellow silty sand	8	16
Blue soapstone	1	17
Iron ore rock		17
No water sample collected. Mar. 7, 1936		

Well 81

Gentle slope, A. P. Cater tract, 2 miles southeast of Kirvin.

Yellow surface sand	2	2
Yellow sandy clay	2	4
Gray, red, and yellow sandy clay	1	5
Gray and red sandy clay	2	7

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 81--Continued		
Gray and yellow sandy clay	8	15
Yellow sandy clay	2	17
Yellow sand rock		17
Struck water at 6 feet.		
No water sample collected. Mar. 20, 1936		

Well 85

Gentle slope, Tom Newman tract, on Fairfield road, 2¾ miles east of Kirvin.

Brown surface sand	2	2
Yellow sand	1	3
Yellow sandy clay	2	5
Brown and yellow sandy clay	1	6
Gray and yellow sandy clay	3	9
Gray sandy soapstone	1	10
Coarse gray sand	1	11
Coarse yellow sand	1	12
White silty sand	1	13
Yellow silty sand	4	17
Gray and yellow sandy clay	4	21
Gray and yellow sand	2	23
Yellow sand	2	25
Gray sand	6	31
Struck water at 29 feet.		
Water sample collected. Mar. 20, 1936.		

Well 87

Hilltop, Fred Carter tract, 3¼ miles southeast of Kirvin.

Yellow surface sand	1	1
Yellow clay and sand	1	2
Red and yellow clay and sand	1	3
Red and white clay and sand	3	6
Yellow packed sand	4	10
Gray soapstone and yellow packed sand	1	11
White silty sand	3	14
Gray sand and soapstone	1	15
Coarse yellow sand	1	16
Gray silty sand	10	26
Gray and yellow silty sand	1	27
Yellow silty sand	2	29
No water sample collected. Mar. 20, 1936.		

Well 89

Level land, Wm. Blakeney tract, 6½ miles southeast of Kirvin.

Brown surface sand	2	2
Red and yellow sandy clay	2	4
Yellow sandy clay	6	10
Gray sand and soapstone	1	11
Gray silty sand	2	13
White silty sand	7	20
Yellow silty sand	3	23
Yellow silty sand and decayed vegetable matter	1	24
Yellow sandy clay	3	27
Purple and gray silty sand	2	29
Struck water at 28 feet.		
Water level, 24.8 feet below top of ground, ½ hour after hole completed.		
Water sample collected. Mar. 18, 1936.		

Well 91

Gentle slope near creek, W. A. Davidson tract, in S. Park Survey, 8 miles southeast of Kirvin.

Brown sandy clay	2	2
Gray and yellow sandy clay	3	5
Gray and brown sandy clay	1	6
Stiff gray and yellow clay	2	8
Gray and yellow clay	3	11
Lignite and purple clay	1	12
Stiff purple clay	1	13
Gray and purple clay	2	15
Gray and sandy clay	1	16
Sandy clay	2	18
Yellow sandy clay	2	20
Gray sand	7	27
Yellow sand	1	28
Damp white sand	1	29
No water sample collected. Feb. 19, 1936		

Well 94

Gentle slope, John Wylie tract, ½ mile north of State Highway No. 7, 8½ miles southeast of Kirvin.

Yellow sand	5	5
Red and yellow sand	1	6
Gray and yellow sand	4	10
Red, gray and yellow sand	5	15
Yellow and grey sand	8	23
Struck water at 20 feet.		
No water sample collected. Feb. 19, 1936		

Well 97

Gentle slope near hilltop, near Jim Short tract, on side road, 4½ miles north of Teague, 7½ miles southeast of Kirvin.

Yellow sand	1	1
Red and gray sandy clay	1	2
Gray sandy clay	4	6
Gray and yellow sandy clay	1	7
White silty sand	14	21
White and yellow silty sand	1	22
Grey silty sand	5	27
Gray and yellow silty sand	2	29
No water sample collected. Feb. 13, 1936		

Logs of W. P. A. test wells in Freestone County--County

	Thickness (feet)	Depth (feet)
Well 98		
Hilltop, J. R. Sheffield tract, 3½ miles east of Simsboro, 6½ miles southeast of Kirvin.		
Orange sandy clay	1	1
Stiff orange clay	1	2
Yellow sand and clay	1	3
Gray soapstone	2	5
Gray soapstone and decayed vegetable matter	1	6
Gray soapstone	1	7
Lignite	1	8
Grap soapstone	1	9
Purple sand and soapstone	1	10
Purple packed sand	1	11
White packed sand	2	13
Hard packed sand		13
No water sample collected. Mar. 18, 1936.		
Well 99		
Hilltop, Charles Phillips tract, 2 miles east of Simsboro, 6½ miles south of Kirvin.		
Yellow sand	6	6
Red and white sandy clay	6	12
Coarse yellow sand	4	16
Damp white silty sand	1	17
Gray silty sand	3	20
White sand and soapstone	2	22
Fine yellow sand	1	23
Fine white sand	6	29
No water sample collected. Mar. 18, 1936.		
Well 102		
Level land, on county road 2-3/4 miles north of Teague, 7½ miles southeast of Kirvin.		
Yellow sand	1	1
Gray and red sandy clay	2	3
Yellow sandy clay	2	5
Gray sandy clay	1	6
Gray and yellow sandy clay	2	8
Gray sandy clay	1	9
Gray and yellow sandy clay	7	16
Gray clay	1	17
Gray sand and purple clay	1	18
Purple and gray sand	2	20
Gray, yellow and purple sandy clay	1	21
Gray sand	8	29
Struck seep water near surface.		
No water sample collected. Feb. 13, 1936.		
Well 105		
Level land, near Helen King tract on side road near State Highway No.7, 1½ miles north of Teague, 8½ miles south of Kirvin.		
Brown sand	1	1
Yellow sand	1	2
Gray and yellow clay and sand	3	5
Gray and red clay and sand	2	7
Gray and yellow sand	2	9
Gray sand	3	12
Yellow sand	1	13
Gray and yellow clay and sand	2	15
Yellow clay and sand	1	16
Gray sand	3	19
Gray clay and sand with decayed vegetable matter	3	22
Fine gray and yellow sand	5	27
Coarse gray and yellow sand	1	28
Yellow clay and sand	1	29
No water sample collected. Feb. 13, 1936		
Well 108		
Gentle slope, John Neece tract, ¼ mile east of railway, 8 miles south of Kirvin.		
Yellow sand	1	1
Yellow and red sandy clay	3	4
Red and gray sandy clay	2	6
Fine gray sand	2	8
Gray sandy clay	1	9
Gray sand	1	10
Fine yellow sand	8	18
Fine white sand	3	21
Yellow sand	1	22
Coarse gray sandy clay	2	24
Damp yellow sand	3	27
Gray and yellow sandy clay	1	28
Yellow sand	1	29
No water sample collected. Feb. 17, 1936		
Well 110		
Gentle slope, on State Highway No. 7, 3½ miles northwest of Teague, 7½ miles south of Kirvin.		
Yellow sand	1	1
Yellow sandy clay	3	4
Gray and yellow sand	3	7
Red sand	2	9
Gray and red sand	3	12
Struck water at 4 feet.		
No water sample collected. Feb. 17, 1936		
Well 114		
Gentle slope, on county road, 6½ miles south of Kirvin.		
Gray and yellow clay	2	2
Gray and yellow soapstone	11	13
Damp gray soapstone	2	15
Gray and yellow soapstone	4	19
Gray soapstone	1	20
Gray sand and soapstone	4	24

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 114--Continued		
Yellow sand and gray soapstone	4	28
Gray sand and soapstone	1	29
No water sample collected. Mar. 3, 1936.		

Well 119

Creek bottoms, on State Highway No. 7, 5 miles west of Teague, 7½ miles south of Kirvin.

Brown sand	2	2
Gray and red sandy clay	3	5
Gray and yellow sandy clay	5	10
Purple and brown sand	1	11
Yellow sand	2	13
Gray and yellow sand	2	15
Yellow sandy clay	2	17
Gray sandy clay	1	18
Red and yellow sand	3	21
Brown sand and lignite	1	22
Lignite	1	23
Blue shale	2	25
Light blue sand and shale	4	29
No water sample collected. Feb. 20, 1936		

Well 121

Level land, 2,000 feet east of Limestone on county road, 9 miles south of Kirvin.

Brown sand	3	3
Grayish-yellow sand and clay	2	5
Grayish-yellow sandy clay	3	8
Coarse yellow sand	5	13
Stiff gray clay	1	14
Gray sandy clay	2	16
Yellow sand	2	18
Yellow sandy clay	2	20
Yellow packed sand	3	23
No water sample collected. Mar. 6, 1936		

Well 125

Hillside, P. L. Luckey tract, 2½ miles west of Teague, 9½ miles south of Kirvin.

Red and yellow sandy clay	2	2
Red and gray sandy clay	2	4
Gray sandy clay	1	5
Coarse yellow and gray sand	2	7
Yellow sand	1	8
Gray sand	1	9
Yellow sand	14	23
Stiff blue clay	3	26
Struck water at 17 feet.		
Water level, 15.8 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 6, 1936		

Well 127

Level land, on county road, ½ mile west of Teague, 9 miles south of Kirvin.

Brown sand	2	2
Brown sandy clay	1	3
Gray and yellow sandy clay	2	5
Stiff yellow clay	1	6
Gray and yellow clay	2	8
Gray soapstone	2	10
Yellow silty sand	3	13
Yellow sandy clay	1	14
Gray silty sand	1	15
Gray sandy clay	1	16
Gray and yellow sand	1	17
Gray sand and soapstone	1	18
Yellow sand and gray soapstone	1	19
Gray soapstone	1	20
Purple silty sand	1	21
White silty sand	2	23
Light purple silty sand	2	25
Yellow silty sand	4	29
No water sample collected. Feb. 28, 1936		

Well 200

Flat, H. Carroll tract, at west city limits of Streetman, 1,000 feet south of county line.

Brown surface sand	1	1
Yellow sandy clay	1	2
Stiff brown clay	1	3
Gray sandy clay	3	6
Gray and yellow sandy clay	1	7
Coarse gray sand	1	8
Brown and yellow sandy clay	3	11
Gray and yellow sandy clay	20	31
No water sample collected. May 21, 1936		

Well 201

Gentle slope, 25 yards east of railroad near Kirvin road on G. B. Speed tract, 1¼ miles south of Streetman.

Brown surface sand	2	2
Brown sand and clay	1	3
Stiff yellow sand and clay	2	5
Yellow clay and sand	6	11
Coarse yellow sand	5	16
Gray and yellow sandy clay	1	17
Stiff brown and yellow clay	1	19
Yellow silty sand	4	22
Gray and yellow silty sand	2	24
Yellow silty sand	3	27
No water sample collected. May 21, 1936		

Logs of W. P. A. test wells in Freestone County--Continued

Well 202

Creek bottoms, Frank Coleman tract, near Highway 75, 1½ miles southeast of Streetman.

	Thickness (feet)	Depth (feet)
Brown clay and sand	2	2
Yellow clay and sand	6	8
Yellow sandy clay and iron ore gravel	1	9
Brown sandy clay and iron ore gravel	1	10
Yellow clay and sand	2	12
Gray sand and shale	1	13
Hard blue shale	6	19
Rock		19

Struck water at 17 feet.
No water sample collected. Apr. 6, 1936

Well 203

Hillside, Lige Edwards tract near Kirvin road, 2-3/4 miles south of Streetman.

Red sandy clay	3	3
Red clay and sand	3	6
Brown gravelly sand	1	7
Gray and yellow sandy clay	7	14
Coarse orange sand	9	23
Gray and yellow sand and clay	8	31
Gray and yellow sandy clay	3	34

No water sample collected. May 21, 1936

Well 204

Hillside, Mrs. E. C. Deaklee tract near Highway 75, 2¼ miles southeast of Streetman.

Stiff red clay	1	1
Red sand and clay	2	3
Red and yellow sandy clay	1	4
Fine yellow sand	12	16
Fine brown and yellow sand	3	19
Brown and gray sandy soapstone	2	21
Yellow clay and sand	1	22
Yellow silty sand	9	31

No water sample collected. Apr. 6, 1936

Well 205

Gentle slope, Ed. McMullen tract on old highway, 3½ miles east of Streetman.

White surface sand	1	1
Stiff brown clay	3	4
Gray sand and clay	1	5
Gray and yellow sandy clay	1	6
Yellow and brown sand	7	13
Fine gray and yellow sand	6	19
Fine yellow sand	3	22
Fine white sand	2	24
Fine yellow sand	3	27
Gray packed sand	2	29
Hard packed sand		29

No water sample collected. Apr. 15, 1936

Well 209

Hilltop, Mrs. M. D. Thurman tract north of Tehuacana Creek, 5 miles east of Streetman.

Yellow clay and sand	1	1
Gray and yellow sandy clay	1	2
Gray clay and sand	1	3
Yellow silty sand	1	4
Gray and yellow silty sand	1	5
Yellow silty sand	4	9
Gray silty sand	1	10
Yellow silty sand	1	11
Gray silty packed sand	5	16
Hard packed sand		16

No water sample collected. Apr. 15, 1936

Well 210

Hillside, Mrs. Emily Jackson tract near Highway 75, 4-3/4 miles southeast of Streetman.

Brown surface sand	2	2
Stiff brown clay	1	3
Red and yellow sandy clay	3	6
Fine yellow sand	1	7
Fine gray and yellow sand	6	13
Fine orange sand	2	15
Fine yellow sand	6	21
Brown and yellow silty sand	1	22
Yellow silty sand	6	28
Yellow clay and sand	1	29
Blue sandy shale	1	30

Struck water seep at 29 feet.
Water sample collected. Apr. 6, 1936

Well 211

Flat, Earl Easterling tract, 2 miles west of Highway 75, W. Carter Survey, 4¼ miles southeast of Streetman.

Red stiff clay	1	1
Stiff yellow clay	2	3
Stiff gray clay	3	6
Stiff gray and yellow clay	2	8
Gray clay and sand	2	10
Orange silty sand	2	12
White packed sand	4	16
Yellow packed sand	5	21
Gray and purple packed sand	1	22
Yellow packed sand	1	23
Yellow clay and sand	1	24
Yellow packed sand	1	25
Gray sand and clay	1	26
Yellow packed sand	1	27
Brown packed sand	1	28
Hard packed sand		28

No water sample collected. May 21, 1936

Logs of W. P. A. test wells in Freestone County--Continued

Well 212

Hillside, O. W. Young tract 2 miles west of Highway 75, H. Burleson Survey, 6 miles southeast of Streetman.

	Thickness (feet)	Depth (feet)
Brown surface sand	1	1
Stiff red clay	1	2
Stiff yellow clay	2	4
Brown gravelly sand	1	5
Hard gray soapstone	3	8
Fine yellow sand	2	10
Fine white sand	2	12
Yellow clay and sand	1	13
Gray packed sand	5	18
Yellow packed sand	1	19
Hard packed sand		19

No water sample collected. Apr. 20, 1936

Well 214

Gentle slope, T. R. Bonner tract near Highway 75, 6½ miles southeast of Streetman.

	Thickness (feet)	Depth (feet)
Brown sandy clay	1	1
Stiff brown clay	2	3
Coarse gray sand	1	4
Coarse gray and yellow sand	1	5
Gray and yellow sand	2	7
White sand	2	9
Gray and yellow sand	1	10
Fine gray and yellow sand	3	13
Fine yellow sand	3	16
Fine brown sand	1	17
Fine gray and yellow sand	3	20
Fine yellow sand	2	22
Yellow sand and iron ore gravel	1	23
Blue and gray sandy shale	4	27

No water sample collected. Apr. 6, 1936

Well 218

Flat, J. R. Sessions tract, 7½ miles southeast of Streetman

	Thickness (feet)	Depth (feet)
Yellow surface sand	2	2
Stiff yellow clay	3	5
Yellow sandy clay	1	6
Gray and yellow sand, clay	1	7
Yellow clay and sand	3	10
Stiff gray clay	1	11
Gray silty sand	2	13
Brown clay and sand	2	15
Purple clay and decayed vegetable matter	1	16
White silty sand	1	17
Yellow silty sand	1	18
Iron ore rock		18

No water sample collected. Apr. 14, 1936

Well 219

Hillside, T. R. Bonner tract on old highway, 6½ miles east of Streetman.

	Thickness (feet)	Depth (feet)
Red clay and sand	1	1
Red and yellow sandy clay	2	3
Stiff yellow clay	1	4
Red and gray sandy clay	1	5
Red and white sandy clay	3	8
Stiff gray clay	4	12
Yellow silty sand	1	13
Gray sand and clay	1	14
Yellow silty sand	3	17
Yellow and white silty sand	2	19
Gray and yellow silty sand	2	21
Gray silty sand	2	23
Gray and yellow silty sand	1	24
Iron ore rock		24

No water sample collected. Apr. 15, 1936

Well 224

Gentle slope, Ed. Watson tract, James James Survey, 8 miles southeast of Streetman.

	Thickness (feet)	Depth (feet)
Yellow surface sand	1	1
Red and yellow sandy clay	2	3
Red and white sandy clay	3	6
Red and white sand	2	8
Salmon colored sand	2	10
Yellow sand	2	12
White sand	9	21
Yellow sand	2	23
Yellow and white sand	6	29
Yellow sand	2	31
Yellow and white sand	1	32
Yellow quicksand	3	35
Quicksand		35

Struck water at 32 feet.

No water sample collected. Apr. 4, 1936

Well 225

Flat, W. M. McCarver trace on Bonnerville road, 8 miles east of Streetman.

	Thickness (feet)	Depth (feet)
Coarse yellow sand	4	4
Orange clay and sand	2	6
Gray and red sand	1	7
Grey sand	1	8
Gray clay and sand	2	10
Gray sandy clay	1	11
Black sandy clay	1	12
Gray sandy clay	1	13
Yellow clay	8	21
Stiff gray clay	3	24
Stiff yellow clay	8	32

Struck water at 9 feet.

Water sample collected. May 13, 1936

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 226		
Gentle slope, S. H. Bonner tract on Bonnerville road, 9 miles east of Streetman.		
Stiff black clay	1	1
Stiff gray and yellow clay	4	5
Stiff yellow clay	1	6
Brown gravelly clay	2	8
Yellow sandy clay	3	11
Iron ore rock	1	12
Rock		12
No water sample collected. May 13, 1936.		
Well 227		
Flat, C. H. and E. M. Watson tract on Winkler road, 9½ miles east of Streetman.		
Stiff red clay	3	3
Stiff yellow clay	1	4
Stiff red clay	1	5
Yellow clay and sand	2	7
Yellow silty sand	2	9
Yellow clay and sand	1	10
Yellow silty sand	2	12
Gray sand and clay	1	13
Yellow packed sand	3	16
Iron ore rock		16
No water sample collected. May 14, 1936.		
Well 229		
Hillside, W. R. Bonner tract near cross-roads on Bonnerville road, 9½ miles east of Streetman.		
Yellow surface sand	1	1
Gray and red sandy clay	3	4
Gray clay and sand	3	7
Yellow clay and sand	1	8
Brown soapstone	1	9
Gray and yellow soapstone	2	11
Purple soapstone	1	12
Gray and yellow soapstone	2	14
Purple soapstone	1	15
Black sandy lignite	1	16
Purple sand and soapstone	2	18
Blue and yellow soapstone	2	20
Blue soapstone	1	21
Black stone coal	1	22
Hard stone coal		22
No water sample collected. May 13, 1936.		
Well 230		
Hillside, T. R. Bonner tract near Lake Chapel road, 7½ miles north of Fairfield.		
Stiff red sand	2	2
Red sandy clay	1	3
Orange sand	2	5
Brown gravelly sand	1	6
Yellow sand	1	7
White sand	4	11
Well 230--Continued		
Fine yellow sand	1	12
Gray sandy clay	4	16
Gray sand	2	18
Yellow sand	5	23
Gray sand	6	29
Yellow sand	9	38
Blue sandy soapstone	1	39
Brown and yellow sand	1	40
Purple sandy clay	1	41
Gray sand	2	43
Struck water at 42 feet.		
Water sample collected. May 14, 1936.		
Well 231		
Gentle slope, T. P. Watson Estate near Wildcat road, 8 miles north of Fairfield.		
Yellow surface sand	1	1
Yellow sandy clay	1	2
Red and yellow sandy clay	1	3
Stiff yellow clay	3	6
Gray and yellow sandy soapstone	14	20
Gray soapstone	1	21
Yellow packed sand	1	22
Yellow packed sand and blue shale	1	23
Brown hard packed sand	2	25
Hard packed sand		25
No water sample collected. Apr. 23, 1936		
Well 232		
Hillside, G. H. Watson tract near old highway, 6½ miles north of Fairfield.		
Yellow surface sand	1	1
Yellow clay and sand	1	2
Red clay and sand	1	3
Red sand	2	5
Salmon-pink sand	2	7
Yellow sand	6	13
Gray sand	3	16
Yellow sand	6	22
Gray sand	10	32
No water sample collected. May 13, 1936.		
Well 234		
Hillside, G. H. Watson tract near old highway, 6 miles north of Fairfield.		
Coarse yellow sand	7	7
Red clay and sand	1	8
Red and yellow sandy clay	2	10
Yellow sand	4	14
Yellow water sand	6	20
Quicksand		20
Struck water at 17 feet.		
No water sample collected. Apr. 14, 1936		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 238		
Hillside, Jim Frazier tract near Highway 75, 6½ miles northwest of Fairfield.		
Yellow surface sand	2	2
Red clay and sand	4	6
Fine red end gray packed sand	3	9
Fine yellow packed sand	7	16
Fine red and gray packed sand	3	19
Fine gray packed sand	7	26
Fine red and gray packed sand	2	28
Hard white sand	4	32
Caving		32
Struck water at 31 feet.		
No water sample collected. Apr. 3, 1936.		
Well 241		
Hillside, J. Livingston tract, 3 miles west of Highway 75 near Kirvin road, 6½ miles northwest of Fairfield		
Brown surface sand	1	1
Stiff red clay	1	2
Red and yellow clay and sand	2	4
Yellow clay and sand	6	10
Brown sand and clay	3	13
Brown sandy clay	4	17
Yellow clay and sand	1	18
Gray clay and sand	4	22
Gray and yellow sandy clay	2	24
Gray and yellow sand	2	26
Purple and yellow sand	3	29
Struck water at 14 feet.		
Water sample collected. Apr. 16, 1936.		
Well 243		
Hillside, M. J. Tate tract, 1½ miles west of Highway 75 near Kirvin road, 5 miles northwest of Fairfield.		
Red sandy clay	4	4
Red and gray sand	2	6
Yellow sand	2	8
Yellow packed sand	3	11
Yellow sandy clay	1	12
Yellow packed sand	4	16
Yellow sand	10	26
Yellow sandy clay	3	29
No water sample collected. Apr. 16, 1936		
Well 247		
Gentle slope, R. W. York tract near Highway 75, 4-3/4 miles northwest of Fairfield.		
Yellow surface sand	1	1
Brown sandy clay	1	2
Stiff red and gray clay	3	5
Red and gray sandy clay	2	7
Yellow sandy clay	1	8
Coarse yellow sand	2	10
White sand	4	14
Yellow and white sand	1	15
White sand	2	17
Yellow sand	3	20
White sand	4	24
Yellow sand	4	28
Gray sand	4	32
Struck water at 29 feet.		
Water le vel, 29.5 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Apr. 3, 1936.		
Well 251		
Gentle slope, M. L. Watson tract on Steward Mill road, J. N. Claypool Survey, 4¾ miles north of Fairfield.		
Yellow sandy clay	1	1
Red and yellow sandy clay	4	5
Stiff yellow clay	1	6
Stiff gray clay	1	7
Gray sand and clay	1	8
Gray sandy clay	1	9
Yellow sand	1	10
Gray sand	1	11
Gray and yellow sand	3	14
Yellow sandy clay	1	15
Gray sandy clay	1	16
Fine gray silty sand	3	19
Fine brown silty sand	1	20
Iron ore rock		20
No water sample collected. Apr. 14, 1936		
Well 252		
Hilltop, W. E. Jones tract, R. C. Epps Survey, 4½ miles north of Fairfield.		
Stiff brown clay	1	1
Stiff gray clay	3	4
Gray sandy clay	3	7
Stiff gray clay	2	9
White sand	1	10
Stiff brown sandy clay	1	11
Yellow sandy clay	3	14
Gray sandy clay	3	17
Stiff brown clay	1	18
Stiff gray clay	2	20
Yellow packed sand	7	27
Gray clay and packed sand	2	29
No water sample collected. Apr. 13, 1936		
Well 258		
Gentle slope, Carl Williford tract, 1,000 feet south of Lake Chapel Cemetery near Ward Prairie road, 4-3/4 miles north of Fairfield.		
Brown surface sand	1	1
Brown and yellow sandy clay	2	3
Stiff brown and yellow clay	2	5

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 258--Continued		
Yellow sandy clay	1	6
Stiff gray clay	2	8
Yellow sandy clay	1	9
Gray and yellow sand	5	14
Gray sand	6	20
Yellow silty sand	3	23
Gray silty sand	1	24
Yellow silty sand	1	25
Blue and gray soapstone	3	28
Stone coal	1	29
Struck water at 25 feet.		
Water sample collected. April 13, 1936		

Well 263

Gentle slope, T. R. Donaldson tract near Wildcat road, 6½ miles north of Fairfield

Brown surface sand	1	1
Coarse yellow sand	2	3
Yellow sandy clay	1	4
Red and yellow sandy clay	1	5
Red and white sandy clay	2	7
Yellow and white sand	2	9
Yellow sand	1	10
Gray sand	16	26
Quicksand		26
Struck water at 20 feet.		
Water sample collected. Apr. 23, 1936.		

Well 265

Hillside, Wallace McGuire tract near Young road, 5½ miles northeast of Fairfield.

Coarse yellow sand	6	6
White quicksand	4	10
Quicksand		10
Struck water at 6 feet.		
No water sample collected. Apr. 23, 1936.		

Well 272

Hillside, E. J. Folk tract near Young road, 4 miles northeast of Fairfield.

Yellow surface sand	1	1
Yellow sandy clay	2	3
Gray and red sand	4	7
Red sand	1	8
Gray and yellow sand	1	9
Gray and red sand	1	10
Gray sand	2	12
Sandy clay	2	14
Gray sandy clay	2	16
Yellow sand	6	22
Gray sandy soapstone	3	25
Gray sandy clay	1	26
Struck water at 25 feet.		
Water sample collected. Apr. 23, 1936.		

	Thickness (feet)	Depth (feet)
Well 275		
Gentle slope, Martha Day tract, 3½ miles northeast of Fairfield.		
Yellow surface sand	1	1
Stiff red and yellow clay	2	3
Red and gray sandy clay	2	5
Coarse yellow sand	2	7
Fine gray clay and sand	6	13
Yellow sandy clay	1	14
Gray silty sand	8	22
Yellow sandy clay	1	23
Gray silty sand	6	29
Yellow sand	2	31
No water sample collected. Apr. 13, 1936		

Well 281

Hilltop, J. L. Shanks tract, northeast corner of H. Sheppard Survey, 3 miles north of Fairfield.

White surface sand	1	1
Stiff yellow clay	3	4
Coarse brown yellow sand	2	6
Gray and yellow sand	4	10
Gray sand	3	13
Brown and gray sand	2	15
Gray and yellow soapstone	4	19
Gray soapstone	5	24
Blue soapstone	2	26
Black soapstone	2	28
Black packed sand	1	29
Struck water seep at 25 feet.		
No water sample collected. Apr. 13, 1936		

Well 283

Gentle slope, R. N. Cannon tract near Highway 75, 3¼ miles north of Fairfield.

Stiff red clay	1	1
Stiff yellow clay	2	3
Coarse yellow sand	3	6
Coarse brown sand	1	7
Gray and yellow sand	3	10
Gray sand and soapstone	4	14
Gray soapstone	3	17
Yellow sand	1	18
Gray soapstone and yellow sand	1	19
White sand	1	20
Yellow sand	2	22
White sand	3	25
Yellow sand	1	26
Gray sandy clay	2	28
Gray sand	3	31
Struck water at 28.5 feet.		
Water level, 26.7 feet below top of ground, 4 hours after hole completed.		
Water sample collected. Apr. 3, 1936.		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 290		
Creek bottoms, J. W. Brown tract near Highway 75, 1½ miles northwest of Fairfield.		
Stiff yellow clay	3	3
Gray and yellow sandy clay	3	6
Brown silty sand	1	7
Gray soapstone	3	10
Gray sandy clay	2	12
Gray silty sand	8	20
Gray sand	5	25
Iron ore rock		25
Struck water at 20 feet.		
Water level, 17.6 feet below top of ground, 6 hours after hole completed.		
Water sample collected. Apr. 3, 1936.		
Well 294		
Creek bottoms, F. E. Hill tract, 2 miles northwest of Fairfield.		
Brown surface sand	4	4
Coarse yellow sand	2	6
Brown sandy clay	1	7
Brown sand	1	8
Yellow silty sand	5	13
Dark yellow silty sand	1	14
Yellow silty sand	10	24
Dark yellow silty sand	1	25
Yellow silty sand	4	29
Struck water at 17 feet.		
Water level, 16.3 feet below top of ground, ½ hour after hole completed.		
Water sample collected. Mar. 19, 1936.		
Well 295		
Hillside, N. W. Davis tract, 3½ miles west of Fairfield.		
Brown surface sand	1	1
Yellow sand	2	3
Red and gray sandy clay	3	6
Orange sandy clay	1	7
Orange sand	1	8
Yellow packed sand	5	13
White sand	16	29
No water sample collected. Mar. 19, 1936		
Well 297		
Hillside, Moses Johns tract, 3-3/4 miles west of Fairfield.		
Brown surface sand	1	1
Red sandy clay	2	3
Coarse brown clay	1	4
Yellow silty sand	2	6
Brown silty sand	2	8
White silty sand	3	11
Gray silty sand	8	19
Well 297--Continued		
Yellow silty sand	7	26
Orange sand	3	29
Struck water at 25 feet.		
Water level, 24.5 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 19, 1936.		
Well 301		
Gentle slope, Lofton Boyd tract, 100 yards south of highway, 3-3/4 miles southwest of Fairfield.		
Yellow sand	4	4
Yellow sandy clay	1	5
Gray and red sandy clay	2	7
Gray and yellow sandy clay	3	10
Gray and yellow sand	1	11
Gray and yellow sandy clay	5	16
Gray and yellow sand	1	17
Gray and yellow sandy clay	4	21
Yellow sandy clay	3	24
Gray and yellow clay	4	28
Red and yellow sandstone	1	29
Struck seep water at 10 feet.		
Struck water at 17 feet.		
Water level, 11.5 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Feb. 1, 1936		
Well 303		
Gentle slope, Bill Nolan tract near Highway 7, 2 miles southwest of Fairfield.		
Yellow surface sand	3	3
Red and yellow sandy clay	3	6
Red and yellow sand	1	7
Gray and yellow sand	2	9
Red and gray sand and clay	7	16
Stiff gray and yellow sand and clay	4	20
Stiff gray clay	2	22
Struck water at 8 feet.		
Water level, 4.9 feet below top of ground, 100 hours after hole completed.		
No water sample collected. Mar. 26, 1936		
Well 308		
Gentle slope, W. E. Jones tract, ½ mile west of Fairfield.		
Brown surface sand	2	2
Red and yellow sandy clay	2	4
Stiff red and yellow clay	1	5
Yellow sandy clay	1	6
Yellow clay and gray sand	4	10
Brown sand	2	12
Gray sand and soapstone	2	14
Gray and yellow sand	1	15

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 308--Continued		
Gray sand and soapstone	1	16
Gray and yellow sand	2	18
Gray and purple sand	1	19
Gray silty sand	3	22
Yellow silty sand	1	23
Brown silty sand	1	24
Gray sand and soapstone	1	25
Yellow sand	2	27
Gray sand	4	31
Gray silty sand	1	32
Gray and yellow sand	1	33
Struck water at 33 feet.		
Water level, 32.1 feet below top of ground, 96 hours after hole completed.		
Water sample collected, Mar. 26, 1936.		
Well 313		
Gentle slope, W. L. Moody tract, near northeast corner of Reunion Ground near Highway 7, 1¼ miles east of Fairfield.		
Yellow surface sand	1	1
Yellow sandy clay	1	2
Stiff yellow clay	1	3
Gray and yellow sandy clay	2	5
Gray sandy clay	1	6
Gray and yellow sandy clay	1	7
Rock		7
No water sample collected. Apr. 7, 1936.		
Well 320		
Creek bottoms, J. M. Robinson tract, 1½ miles northeast of Fairfield.		
Brown surface sand	1	1
Stiff red s andy clay	2	3
Stiff yellow clay	2	5
Gray and yellow sandy clay	1	6
Gray silty sand	13	19
Gray sand	3	22
Gray sand and soapstone	2	24
White sand	3	27
Yellow sand	1	28
Gray sand and soapstone	1	29
No water sample collected. Apr. 7, 1936.		
Well 321		
Gentle slope, Will Giles Estate near Young road, 2½ miles northeast of Fairfield.		
Brown surface sand	1	1
Stiff black clay	3	4
Stiff gray clay	1	5
Gray and yellow sand	4	9
Gray and yellow silty sand	3	12
Yellow silty sand	8	20
Gray silty sand	5	25
Gray and yellow sandy clay	4	29
Struck water at 20 feet.		
Water sample collected. Apr. 23, 1936.		

	Thickness (feet)	Depth (feet)
Well 323		
Hilltop, Keeney and Hall tract, southwest corner of Juan N. Acosta Survey, 4 miles northeast of Fairfield.		
Yellow surface sand	3	3
Yellow sandy clay	1	4
Red and white sandy clay	4	8
Yellow and white sandy clay	1	9
White sandy clay	2	11
Yellow sandy clay	1	12
Gray sandy clay	4	16
Gray sand	1	17
Purple and gray sand	1	18
Yellow sandy clay	3	21
Yellow sandy soapstone	1	22
Gray silty sand	2	24
No water sample collected. May 1, 1936		
Well 326		
Hillside, McDonald and Huckaby tract, north line of M. R. Palacios Survey, 5½ miles northeast of Fairfield.		
Brown sandy clay	1	1
Stiff brown clay	2	3
Brown sandy clay	2	5
Brown and yellow sandy clay	3	8
Gray and yellow sand	3	11
Gray sand	1	12
Gray sandy clay	10	22
Yellow sand	6	28
Gray packed sand	2	30
No water sample collected. May 1, 1936.		
Well 407		
Gentle slope, C. H. and E. M. Watson tract, near Wildcat road in Tehuacana creek bottoms, 5 miles north of Young.		
Brown silty sand	3	3
Gray and yellow silty sand	2	5
Gray and yellow sand	3	8
White sand	2	10
Yellow sand	1	11
White sand	7	18
Yellow sand	2	20
Stiff gray clay	4	24
Struck water at 19 feet.		
Water sample collected. Apr. 24, 1936.		
Well 410		
Flat, Mack Cockrell tract near Wildcat road, 4 miles northwest of Young.		
Yellow surface sand	1	1
Stiff red and brown clay	1	2
Stiff gray and yellow clay	2	4
Brown sandy clay	1	5
Yellow sand	2	7
Yellow sandy clay	1	8
Fine yellow sand	8	16

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 410--Continued		
Brown sand, fine	1	17
Fine yellow sand	18	35
No water sample collected. Apr. 24, 1936.		

Well 411

Gentle slope, Marvin Watson tract near Wildcat road, 3¼ miles northwest of Young.

Red sandy clay	1	1
Stiff yellow clay	4	5
Yellow sandy clay	3	8
Yellow packed sand	10	18
Hard packed sand		18
No water sample collected. Apr. 24, 1936.		

Well 412

Hillside, W. T. Cole tract, 2½ miles northwest of Young.

Red sandy clay	3	3
Yellow silty sand	6	9
Gray silty sand	1	10
Gray silty sand	2	12
Yellow sandy clay	2	14
Blue shale	1	15
No water sample collected. Apr. 24, 1936		

Well 415

Gentle slope, H. P. Shields tract, 1¼ miles northwest of Young.

Coarse blue sand	1	1
Stiff brown clay	2	3
Stiff gray clay	2	5
Yellow sandy clay	1	6
Gray sandy clay	2	8
Yellow sandy clay	1	9
Gray and yellow sandy clay	2	11
Stiff gray clay	3	14
Yellow clay	1	15
Gray and black silty sand	1	16
Black lignite	1	17
Stiff gray clay	2	19
Blue soapstone	1	20
Yellow sand	1	21
No water sample collected. Apr. 24, 1936		

Well 420

Flat, Boyd Henderson tract near Fairfield road, 1/4 mile southwest of Young.

Yellow surface sand	2	2
Red and yellow sandy clay	1	3
Stiff yellow clay	1	4
Coarse gray and brown sand	3	9
Yellow sand	5	14
White sand	6	20
Gray and yellow sandy clay	2	22
White sand	6	28
Red and white sand	3	31
No water sample collected. Apr. 23, 1936		

Well 422

Gentle slope, F. E. Hill tract near Turlington road, 3/4 mile southeast of Young.

Stiff red clay	3	3
Yellow sandy clay	1	4
Gray and yellow sand	2	6
Gray soapstone	1	7
Yellow sandy clay	1	8
Yellow sand	9	17
Orange sand	1	18
Yellow clay and sand	2	20
Gray sand and soapstone	1	21
Yellow sand	1	22
Orange packed sand	1	23
Yellow packed sand	2	25
Gray sandy soapstone	1	26
Yellow sand	1	27
Yellow sandy clay	1	28
Gray sandy soapstone	1	29
Hard soapstone		29
No water sample collected. May 19, 1936		

Well 423

Gentle slope, Brady Gunter tract near Fairfield road, 1-3/4 miles southwest of Young.

Coarse yellow	6	6
Red and yellow sand	1	7
Gray sand	3	10
Red and yellow sand	2	12
Gray sand	5	17
Gray and yellow sand	3	20
Gray sand	1	21
Yellow sand	5	26
Gray and yellow sand	1	27
Yellow sand	5	32
Struck water at 17 feet.		
Water sample collected. Apr. 23, 1936.		

Well 427

Gentle slope, W. C. Gunter tract near Cook's Ferry road, 1-3/4 miles south of Young.

Yellow surface sand	1	1
Yellow sandy clay	2	3
Stiff red and yellow clay	3	6
Brown sandy clay	1	7
Brown and yellow sandy clay	3	10
Gray sandy soapstone	1	11
Coarse brown and yellow sand	2	13
Gray sandy soapstone	4	17
Brown sandy clay	4	21
Gray sandy soapstone	1	22
Brown sandy clay	2	24
Gray sandy soapstone	2	26
Yellow sand	2	28
Brown sandy clay	1	29

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 427--Continued		
Yellow sand	1	30
Gray sand	2	32
Yellow sand	1	33
Brown sand	1	34
Yellow sand	1	35
Gray soapstone	1	36
No water sample collected. May 19, 1936.		

Well 428

Gentle slope, H. Bullock tract near Cook's Ferry road, 1½ miles southeast of Young.

Stiff yellow clay	1	1
Stiff gray clay	2	3
Gray sandy clay	3	6
Gray and yellow sandy clay	8	14
Yellow sand	2	16
Gray and yellow sandy clay	2	18
Yellow sand	12	30
No water sample collected. May 1, 1936.		

Well 429

Flat, F. E. Hill tract near Cook's Ferry road, 3 miles east of Young.

Brown surface sand	2	2
Coarse brown sand	2	4
Yellow sand, water	2	6
Red gray sandy clay	2	8
Yellow sandy clay	11	19
Yellow sand	1	20
Yellow sandy clay	2	22
Yellow sand	3	25
Struck water at 5 feet.		
Water sample collected. May 19, 1936.		

Well 430

Hillside, F. E. Hill tract near Turlington road, 3 miles southeast of Young.

Yellow sandy clay	2	2
Stiff red clay	1	3
Red sandy clay	2	5
Salmon colored sandy clay	1	6
Yellow sand	11	17
Yellow packed sand	1	18
Iron ore rock		18
No water sample collected. May 1, 1936		

Well 431

Creek bottoms, J. M. Miller tract, Juan N. Acosta Survey, 3-3/4 miles south of Young.

Yellow sand	1	1
Yellow sandy clay	1	2
Gray and red sandy clay	8	10
Gray sandy clay	7	17
Yellow sandy clay	2	19
Gray sand	1	20
Gray sandy clay	4	24
Yellow sandy clay	2	26
Yellow sand	2	28
Blue sand	2	30
Struck water at 14 feet.		
Water sample collected. May 1, 1936.		

Well 432

Hilltop, F. E. Hill tract, 3½ miles southeast of Young.

Stiff brown clay	4	4
Stiff yellow sandy clay	2	6
Yellow sandy clay	2	8
Yellow sand	1	9
Brown sand	2	11
White sand	1	12
Brown sand	1	13
Yellow sand	10	23
Gray sand	2	25
Yellow sand	2	27
No water sample collected. May 1, 1936		

Well 423

Creek bottoms, F. E. Hill tract near Pine Bluff road, 4¼ miles southeast of Young.

Brown clay and sand	10	10
Brown yellow clay and sand	2	12
Yellow clay and sand	5	17
Brown sand	2	19
Orange sand	1	20
Purple sand	1	21
Yellow sand	3	24
Brown clay and sand	1	25
Yellow sand	2	27
Yellow clay and sand	1	28
Yellow sand	2	30
Yellow clay and sand	1	31
Gray sand	3	34
Gray and yellow sandy clay	1	35
Gray sandy clay	1	36
Gray sand	1	37
Struck water at 33 feet.		
Water sample collected. May 19, 1936.		

Well 434

Hilltop, P. D. C. Ball tract on Pine Bluff road, 5½ miles southeast of Young.

Coarse yellow sand	10	10
Yellow quicksand	2	12
Quicksand		12
Struck water at 10 feet.		
No water sample collected. May 19, 1936		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 435		
Hillside, T. H. Richardson tract near Blount School, 4½ miles southeast of Young.		
Brown surface sand	1	1
Brown clay and sand	1	2
Yellow sand and clay	1	3
Stiff yellow clay	2	5
Gray silty sand	5	10
Yellow silty sand	5	15
No water sample collected. Apr. 27, 1936.		
Well 438		
Hillside, F. E. Hill tract near new Young-Turlington road, 4½ miles south of Young.		
Yellow surface sand	3	3
Red packed sand	10	13
Red and yellow packed sand	1	14
Iron ore rock		14
No water sample collected. Apr. 27, 1936.		
Well 439		
Hillside, F. E. Hill tract near Turlington road, 5½ miles south of Young.		
Yellow surface sand	2	2
Yellow sandy clay	3	5
Red and yellow sandy clay	1	6
Red sandy clay	4	10
Red and yellow sandy clay	1	11
Brown sandy clay	2	13
Iron ore rock		13
Struck water seep at 13 feet.		
No water sample collected. Apr. 27, 1936		
Well 500		
Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler.		
Yellow sand	2	2
Yellow clay and sand	1	3
Brown sandy clay	1	4
Yellow sandy clay	2	6
Red sand and clay	1	7
Bray and brown sandy clay	1	8
Gray and yellow sandy clay	3	11
Stiff gray clay	1	12
Yellow packed sand	2	14
White packed sand	8	22
Hard packed sand		22
No water sample collected. Apr. 27, 1936.		
Well 501		
Hillside, P. D. C. Ball tract near Pine Bluff road, 8½ miles northwest of Butler		
Yellow surface sand	3	3
Coarse yellow sand	4	7
Salmon colored sand	4	11
Coarse gray and yellow sand	4	15
Coarse yellow sand	1	16
White and yellow sand and clay	1	17
White sandy clay	1	18
White and yellow sand and clay	2	20
Gray and yellow soapstone	2	22
Yellow clay	1	23
Blue sandy clay	9	32
Struck water at 6 feet.		
Water sample collected. May 12, 1936.		
Well 502		
Hilltop, P. D. C. Ball tract near Pine Bluff road, 9 miles northwest of Butler.		
Coarse yellow sand	11	11
Fine white sand	4	15
Coarse yellow sand	1	16
White clay and sand	4	20
Coarse yellow and white sand	1	21
Coarse white sand	3	24
Coarse yellow and white sand	6	30
Quicksand		30
Caving		30
Struck water at 25 feet.		
Water sample collected. May 12, 1936.		
Well 503		
Hillside, P. D. C. Ball tract near Pine Bluff road, 9 miles northwest of Butler.		
Yellow sandy clay	3	3
Red and yellow clay and sand	3	6
Coarse yellow sand	1	7
Red gravel and sand	4	11
Coarse orange sand	1	12
Iron ore gravel		12
No water sample collected. May 12, 1936		
Well 504		
Hilltop, P. D. C. Ball tract near Pine Bluff road, 8 miles northwest of Butler.		
Coarse yellow sand	6	6
Red gravel and sand	2	8
Coarse red sand	6	14
Coarse yellow sand	1	15
Stiff gray and white clay	3	18
Coarse yellow sand	3	21
Gray and yellow packed sand	4	25
No water sample collected. May 12, 1936.		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 505		
Gentle slope, F. E. Hill tract, ¼ mile south of Trinity school near Pine Bluff road, 7 miles northwest of Butler.		
Coarse yellow sand	6	6
Coarse orange sand	5	11
Coarse yellow sand	3	14
Yellow clay and sand	1	15
Coarse white sand	1	16
Coarse orange and white sand	1	17
Coarse yellow sand	1	18
Gray silty sand	3	21
Coarse yellow sand	1	22
White sand	6	28
Coarse yellow sand	5	33
Struck water at 31 feet.		
No water sample collected. May 12, 1936.		
Well 507		
Gentle slope, P. D. C. Ball tract, 6½ miles north of Butler.		
Brown surface sand	2	2
Stiff red clay	3	5
Orange sand	5	10
Yellow clay and sand	1	11
Gray soapstone	1	12
Yellow soapstone	1	13
Yellow and white sand and clay	2	15
Yellow sand	9	24
Yellow clay and sand	1	25
Struck water at 14 feet.		
No water sample collected. June 29, 1936		
Well 508		
Hillside, F. E. Hill tract near Blum Farm road, 5½ miles north of Butler.		
Yellow surface sand	2	2
Yellow sand	6	8
Yellow clay and sand	3	11
Yellow sand	2	13
Black and yellow sand	2	15
Yellow sand	7	22
Gray sand	10	32
Struck water at 23 feet.		
No water sample collected. June 29, 1936.		
Well 509		
Hillside, C. E. Childs tract near Evans Lake road, 3½ miles north of Butler.		
Brown clay and sand	3	3
Red and yellow sand and clay	3	6
Orange silty sand	1	7
Red and white sandy clay	2	9
Orange clay and sand	3	12
Brown sand	1	13
Gray and yellow sandy clay	5	18
Well 509--Continued		
Yellow sand	4	22
Purple yellow clay	1	23
Purple and yellow sand	1	24
Purple sand	2	26
Yellow sand	1	27
Rock		27
Struck water at 15 feet.		
No water sample collected. June 29, 1936		
Well 510		
Hillside, P. D. C. Ball tract near Evans Lake road, 3 miles northwest of Butler.		
Brown surface sand	1	1
Yellow clay and sand	5	6
Yellow and white sandy clay	2	8
Yellow clay and sand	2	10
Red clay and sand	4	14
Red and white sandy clay	2	16
Yellow and white sandy clay	2	18
Yellow clay and sand	2	20
Iron ore gravelly sand	1	21
Yellow sand	1	22
Red sand	2	24
Brown sand	1	25
Yellow sand	1	26
Brown sand	1	27
Yellow and white sandy clay	4	31
Yellow clay and sand	1	32
Iron ore sand	2	34
Iron ore rock		34
No water sample collected. May 5, 1936.		
Well 511		
Flat, P. D. C. Ball tract, 3 miles north of Red's Lake, 3¼ miles northwest of Butler.		
Yellow surface sand	1	1
Yellow clay and sand	3	4
Red and white and sandy clay	2	6
Red silty sand	2	8
Fine brown sand	1	9
Fine red sand	1	10
Fine orange sand	2	12
Yellow packed sand	4	16
Fine white packed sand	2	18
Fine yellow packed sand	2	20
Fine white packed sand	4	24
Fine yellow packed sand	3	27
No water sample collected. May 6, 1936.		
Well 512		
Edge of draw, G. T. Gilpin tract near old West Point road, 5½ miles northwest of Butler.		
Brown surface sand	1	1

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 512--Continued		
Yellow clay and sand	3	4
Coarse yellow sand	2	6
Coarse red and yellow sand	3	9
Red and white sandy clay	2	11
Yellow and white sand	3	14
White sand	1	15
Yellow sand	1	16
White sand	3	19
Yellow and white packed sand	2	21
No water sample collected. May 4, 1936.		

Well 513

Hillside, P. D. C. Ball tract near Hill road, Jose Ignacio Aquilera Survey, 3¾ miles northwest of Butler.

Brown surface sand	1	1
Yellow clay and sand	5	6
Red and yellow sand	2	8
Red clay and sand	4	12
Orange clay and sand	2	14
Yellow sand rock		14
Hard packed sand		14
No water sample collected. May 4, 1936.		

Well 514

Hilltop, J. B. Daniels tract near Highway 7, 4½ miles west of Butler.

Yellow surface sand	1	1
Yellow clay and sand	3	4
Red and yellow sand	4	8
Red and white soapstone	4	12
Rock		12
Struck water at 9 feet.		
Water level, 5.4 feet below top of ground, 25 hours after hole completed.		
Water sample collected. Apr. 9, 1936		

Well 515

Hillside, P. D. C. Ball tract, 2 miles south of Highway 7, 4½ miles west of Butler.

Coarse orange sand	1	1
Red sand and clay	1	2
Red sand	1	3
Orange silty sand	3	6
Yellow and white sand	6	12
Yellow and white sandy clay	1	13
Gray sand	1	14
Yellow sand	3	17
Purple soapstone	2	19
Black soapstone	10	29
Purple soapstone	1	30
Brown clay and sand	1	31
White packed sand	1	32
Yellow packed sand	1	33
Yellow sand rock		33
No water sample collected. May 6, 1936.		

Well 516

Hilltop, J. B. Daniel tract near Red's Lake, 3 miles west of Butler.

Yellow surface sand	1	1
Yellow sand and clay	2	3
Gray and yellow sandy clay	1	4
White sand	2	6
Brown and yellow sand	1	7
Red iron ore sand	1	8
Iron ore rock		8
No water sample collected. Apr. 9, 1936.		

Well 519

Hilltop, T. J. Ferguson tract near Pine Top School, 1½ miles north of Butler.

Stiff red clay	1	1
Red gravel and clay	2	3
Red sand and clay	1	4
Fine red sand	2	6
Yellow clay and sand	1	7
Fine yellow sand	1	8
Yellow clay and sand	2	10
Fine yellow packed sand	2	12
Brown clay and sand	1	13
Yellow packed sand	1	14
Iron ore rock		14
No water sample collected. May 5, 1936.		

Well 520

Gentle slope, W. E. McDaniel tract near Highway 7, 1¼ miles west of Butler.

Yellow surface sand	2	2
Red and gray sandy clay	4	6
Gray sand and soapstone	2	8
Coarse yellow sand	1	9
Red and white sand	1	10
Brown and white sand	1	11
Fine yellow sand	2	13
Brown sand	1	14
Gray sand	1	15
Brown sand and soapstone	1	16
Black sandy soapstone	3	19
Blue and green sand	6	25
Black sand and soapstone	1	26
Rock		26
Struck water at 21 feet.		
Water level, 19.2 feet below top of ground, 24 hours after hole completed.		
Water sample collected. Apr. 9, 1936.		

Well 523

Hilltop, W. P. Talbot tract near Oakwood road, W. P. Powell Survey, 2½ miles west of Butler.

Yellow surface sand	3	3
Coarse yellow sand	2	5
Red gravelly sand	4	9
Rock		9
No water sample collected. June 1, 1936.		

Logs of W. P. A. test wells in Freestone County--Continued

Well 526

Hillside, H. M. Johnson and N. C. Grider tract, T. Dowie Survey, 4 miles southwest of Butler.

	Thickness (feet)	Depth (feet)
Yellow clay and sand	2	2
Coarse gravelly sand	1	3
Red sandy clay	2	5
Red and white sandy clay	1	6
Orange clay and sand	1	7
White soapstone	1	8
Red sand	2	10
Gray sand and soapstone	2	11
Coarse sand	2	13
Gray and purple soapstone	1	14
Red sand	1	15
Yellow sand	1	16
Brown sand and soapstone	2	18
Coarse brown sand	1	19
Brown sand and clay	3	22

Struck water at 15 feet.
Water sample collected. June 1, 1936.

Well 529

Hillside, Geo. E. Dilley tract near Buffalo road, 4 miles southwest of Butler.

	Thickness (feet)	Depth (feet)
Red sandy clay	3	3
Orange clay and sand	3	6
White sand	2	8
Yellow sand	2	10
Salmon-colored sand	2	12
Yellow sand	1	13
Yellow gravelly sand	1	14
Yellow sand and clay	3	17
Gray and yellow sandy clay	1	18
Stiff purple clay	4	22

Struck water at 14 feet.
Water sample collected. June 1, 1936.

Well 531

Hillside, Thos. H. Lee tract near Oakwood road, 3-3/4 miles southwest of Butler.

	Thickness (feet)	Depth (feet)
Brown surface sand	1	1
Red sand and clay	4	5
Orange sand and clay	4	9
Yellow silty sand	1	10
Orange clay and sand	1	11
Orange and white silty sand	4	15
White sand	1	16
Yellow sand	3	19
Iron ore gravel	3	22
Rock		22

No water sample collected. June 3, 1936

Well 532

Hillside, Mrs. M. Killough tract near Highway 7, $\frac{1}{4}$ mile southeast of Butler.

	Thickness (feet)	Depth (feet)
Coarse red sand	2	2
Red clay and sand	3	5
Red gravelly sand	2	7
Red clay and sand	6	13

Struck water at 8 feet.
Water level, 6.8 feet below top of ground, 21 hours after hole completed.
Water sample collected. Apr. 9, 1936.

Well 533

Hillside, Mrs. A. W. Parsons tract near Oakwood road, $1\frac{1}{2}$ miles southeast of Butler.

	Thickness (feet)	Depth (feet)
Yellow sand	7	7
Yellow quicksand	3	10

Struck water at 7 feet.
No water sample collected. June 2, 1936.

Well 534

Hilltop, P. M. McGeorge tract near Highway 7, $2\frac{1}{2}$ miles east of Butler.

	Thickness (feet)	Depth (feet)
Gray surface sand	2	2
Gray and yellow sand	1	3
Gray and yellow sandy clay	1	4
Gray and yellow sand	3	7
Gray and red sand	2	9
Gray and yellow sand	2	11
Gray and red sand	2	13
Gray and yellow sand	6	19
Gray and yellow sandy clay	6	25

Struck water at 8 feet.
Water level, 5.4 feet below top of ground, 3 hours after hole completed.
Water sample collected. Apr. 10, 1936.

Well 536

Gentle slope, W. C. Gorman tract near Oakwood road, 2-3/4 miles southeast of Butler.

	Thickness (feet)	Depth (feet)
Yellow surface sand	1	1
Yellow clay and sand	3	4
Red and white clay and sand	1	5
Red and white sandy clay	3	8
Red clay and sand	1	9
Gray clay and sand	1	10
Orange clay and sand	4	14
Yellow clay and sand	2	16
Purple sandy soapstone	1	17
Yellow clay and sand	2	19
Purple and yellow sandy clay	5	24
Brown sand and soapstone	1	25
Green and brown sand	5	30

Struck water at 28 feet.
Water sample collected. June 2, 1936.

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 539		
Gentle slope, B. B. Kimbell tract near Oakwood road, 3 miles south of Butler.		
Yellow clay and sand	1	1
Yellow sandy clay	2	3
Red and white sandy clay	3	6
Yellow and white slick clay	4	10
Yellow and white clay and sand	3	13
Stiff brown clay	4	17
Stiff black clay	7	24
Struck water at 12 feet.		
Water sample collected. June 3, 1936.		
Well 542		
Hilltop, Ben Cannon tract near Lanely road, 4 miles south of Butler.		
Yellow surface sand	1	1
Orange clay and sand	2	3
Red clay and sand	3	6
Red and white sandy clay	2	8
Red packed sand	2	10
Hard packed sand		10
No water sample collected. June 3, 1936.		
Well 545		
Hilltop, E. Guess tract near Oakwood road, 4¼ miles southeast of Butler.		
Yellow surface sand	2	2
Yellow clay and sand	1	3
Red and yellow sandy clay	1	4
Red and white sandy clay	2	6
Yellow silty sand	2	8
Red and yellow silty sand	2	10
Orange colored sand	1	11
Yellow sand	3	14
Orange colored sand	3	17
Brown gravelly sand	1	18
White silty sand	2	20
Gray and yellow sand	5	25
White clay and sand	1	26
Gray sand	1	27
Yellow sand	2	29
Brown and gray sandy clay	1	30
Yellow sand	1	31
Brown and gray sand	1	32
Brown sand	5	37
Struck water at 35 feet.		
Water sample collected. June 2, 1936.		
Well 549		
Hillside, J. L. Crawford tract near Oakwood road, 5½ miles southeast of Butler.		
Brown surface sand	1	1
Red and yellow sandy clay	3	4
Red and yellow sand	2	6
Red and white clay and sand	3	9
Yellow and white silty sand	4	13
Gray and yellow sand	3	16
Purple sandy clay	1	17
Brown and yellow sand	2	19
Struck water at 13 feet.		
Water sample collected. June 3, 1936.		
Well 550		
Hillside, J. W. Anders tract near Oakwood road, 5 miles southeast of Butler.		
Yellow clay and sand	2	2
Red and white sandy clay	4	6
Yellow and white sandy clay	4	10
Yellow sand	1	11
Red and yellow sandy clay	3	14
Yellow sand	2	16
Red clay	1	17
Gray clay and sand	1	18
Gray and yellow sandy clay	2	20
Orange colored sand	2	22
Yellow sandy clay	1	23
Gray and yellow sand	3	26
White sand	1	27
Gray and yellow sand	3	30
Yellow quicksand	2	32
Quicksand		32
Struck water at 30 feet.		
No water sample collected. June 30, 1936.		
Well 551		
Flat, Childress and Challacombe tract near Highway 7, 4¼ miles east of Butler.		
Stiff black clay	4	4
Stiff green clay	1	5
Stiff yellow clay	5	10
Stiff brown and gray clay	6	16
Stiff yellow and gray clay	3	19
Yellow and gray sandy clay	2	21
Stiff brown and gray clay	1	22
Yellow sand	4	26
Orange sand	1	27
Damp yellow sand	2	29
Gray and yellow sand	3	32
Quicksand		32
Struck water at 32 feet.		
No water sample collected. June 30, 1936.		
Well 552		
Hillside, J. H. Jackson tract near Highway 7, 5 miles east of Butler.		
Stiff yellow clay	3	3
Gray and yellow sandy clay	3	6
Gray and yellow sand	3	9
Yellow sand	2	11
Gray and yellow sand	2	13

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 552--Continued		
Yellow sand	1	14
Gray and yellow sand	2	16
Gray sand	5	21
Quicksand		21
Struck water at 20 feet.		
No water sample collected. Apr. 10, 1936.		

Well 553

River bottoms, O. L. Gregg tract, 1,000 feet south of Highway 7 junction at River crest, 6½ miles east of Butler.

Brown surface sand	4	4
Red clay and sand	2	6
Red sand	1	7
Yellow sand	3	10
Yellow and white sand	3	13
Yellow quicksand	2	15
Struck water at 12 feet.		
No water sample collected. Apr. 10, 1936.		

Well 600

Gentle slope, Mrs. Burta Davis tract, 5½ miles northwest of Dew.

Brown sand	1	1
Red sandy clay	4	5
Reddish-yellow sand and clay	2	7
Yellow sand	2	9
Yellow sand and clay	4	13
Gray soapstone	1	14
Yellow sand	2	16
Yellow sand and soapstone	1	17
Rock		17
No water sample collected. Mar. 12, 1936.		

Well 605

Gentle slope, J. R. B. Cain tract near Highway 75, 7 miles north of Dew.

Stiff red clay	3	3
Red sandy clay	4	7
Red and yellow clay	1	8
Brown and gray sand	9	17
Yellow sand	1	18
Brown sand	4	22
Struck water at 16 feet.		
Water sample collected. Mar. 26, 1936.		

Well 608

Gentle slope, W. L. Moody tract, R. Gainer Survey, 7 miles north of Dew.

Brown surface sand	1	1
Yellow and red sandy clay	2	3
Brown clay	2	5
Gray and red sandy clay	3	8
Coarse brown sand	1	9
Coarse gray and yellow sand	1	10
Coarse gray sand	2	12

	Thickness (feet)	Depth (feet)
Well 608--Continued		
Yellow silty sand	2	14
Gray silty sand	2	16
Brown silty sand	1	17
Gray and yellow silty sand	2	19
Brown silty sand	1	21
Gray sand	3	23
Yellow sand	7	30
Black sand and lignite	1	31
Struck water at 30 feet.		
No water sample collected. Apr. 25, 1936		

Well 612

Hillside, Franklin Glazener tract near Highway 7, 8 miles northeast of Dew.

Yellow sandy clay	1	1
Stiff yellow clay	2	3
Yellow sandy clay	3	6
Stiff gray clay	2	8
Gray sandy clay	1	9
Yellow sand and clay	5	14
Gray sandy clay	2	16
Gray and yellow clay and sand	2	18
Fine white sand	1	19
Fine yellow sand	1	20
Yellow sand and clay	1	21
Gray sandy clay	4	25
Blue shale	3	28
Lignite	1	29
No water sample collected. Apr. 7, 1936		

Well 615

Hillside, Silas Dockery tract, 1 mile north of Highway 7, 8½ miles northeast of Dew.

Stiff red clay	1	1
Stiff red and yellow clay	3	4
Red and gray sandy clay	2	6
Orange colored sand	1	7
Yellow sand	5	12
Gray and yellow sand and clay	2	14
Yellow sand	7	21
Yellow sandy clay	3	24
Purple and gray sand	3	27
Gray sand	5	32
No water sample collected. May 4, 1936.		

Well 617

Hillside, A. Hendry tract near Turlington road, 10½ miles northeast of Dew.

Yellow surface sand	3	3
Red and yellow sand and clay	3	6
Red and white sandy clay	1	7

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 617--Continued		
White sandy clay	1	8
Red and white sandy clay	2	10
Red and white sand	1	11
Red gravel and clay	1	12
Stiff gray clay	1	13
Stiff yellow clay	2	15
Stiff gray clay	4	19
Stiff purple clay	1	20
Black spongy lignite	2	22
Purple sandy clay	5	27
Struck water at 22 feet.		
Water sample collected. Apr. 27, 1936.		

Well 619

Hillside, N. L. Richardson tract near Turlington road, 9 miles northeast of Dew.

Yellow sandy clay	1	1
Red sandy clay	1	2
Stiff red clay	2	4
Stiff yellow clay	1	5
Gray sandy clay	1	6
Yellow sandy clay	1	7
Gray sandy clay	1	8
Yellow sand and clay	1	9
Gray sandy clay	1	10
Yellow sand and clay	3	13
Yellow silty sand	5	18
Gray silty sand	1	19
Yellow silty sand	10	29
No water sample collected. Apr. 27, 1936		

Well 620

Side of draw, H. H. Wooldridge tract near Humble Pump Station road, 10 miles northeast of Dew.

Brown gravelly sand	4	4
Red clay and sand	3	7
Red gravelly sand	1	8
Brown clay and sand	2	10
Yellow silty sand	2	12
Yellow sand	1	13
Gray and yellow sand	1	14
Yellow sand rock		14
No water sample collected. May 4, 1936		

Well 621

Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew.

Brown surface sand	2	2
Red clay and sand	4	6
Fine red sand	2	8
Fine yellow sand	4	12
White silty sand	3	15
Red and yellow sand	2	17
Yellow sand	1	18

	Thickness (feet)	Depth (feet)
Well 621--Continued		
Red and gray sand	4	22
Yellow sand	2	24
White sand	1	25
Red and white sand	4	29
Struck water at 29 feet.		
No water sample collected. Apr. 9, 1936		

Well 623

Flat, Joe McAdams tract near Highway 7, 8 miles northeast of Dew.

Brown surface sand	1	1
Red sand and clay	2	3
Stiff yellow clay	2	5
Yellow sandy clay	1	6
Gray and yellow sand and clay	4	10
Coarse gray and yellow sand	2	12
Coarse brown and yellow sand	1	13
Gray clay and sand	2	15
Yellow silty sand	1	16
Fine gray sand	3	19
Fine brown sand	1	20
Fine gray sand	8	28
Gray and yellow clay and sand	1	29
No water sample collected. Apr. 7, 1936.		

Well 628

Hilltop, E. and O. Emmons tract, 1½ miles south of Highway 7, 6 miles northeast of Dew.

Stiff red clay	2	2
Stiff yellow clay	2	4
Yellow sandy clay	1	5
Yellow sand and clay	3	8
Gray silty sand	5	13
Yellow silty sand	3	16
Gray silty sand	6	22
Blue sandy clay	1	23
Black spongy lignite	1	24
Brown clay and packed sand	2	26
No water sample collected. Apr. 29, 1936		

Well 632

Gentle slope, Leonard Emmons tract near Highway 7, 7½ miles north of Dew.

Yellow surface sand	2	2
Red and yellow sandy clay	2	4
Red and yellow clay and sand	2	6
Gray and yellow sand	3	9
Gray sand	2	11
Yellow packed sand	5	16
Gray clay and sand	4	20
Brown clay and sand	1	21
Gray clay and sand	1	22

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 632--Continued		
Yellow clay and sand	1	23
Gray clay and sand	3	26
Brown clay and sand	3	29
No water sample collected. Apr. 7, 1936.		

Well 634

Gentle slope, W. W. Riley Estate, B. Holtzclaw Survey, 5 miles north of Dew.

Yellow surface sand	1	1
Red and white sandy clay	5	6
Gray and yellow silty sand	3	9
Yellow silty sand	5	14
Gray soapstone	2	16
Gray sandy soapstone	2	18
Coarse gray sand	4	22
Coarse yellow sand	3	25
Gray sandy soapstone	1	26
Gray packed sand	1	27
Hard packed sand		27

No water sample collected. Apr. 25, 1936

Well 636

Hillside, Sim Chavers tract near Highway 75, 5 miles north of Dew.

Brown sandy clay	2	2
Red sandy clay	3	5
Red clay and sand	1	6
Red and gray sand	2	8
Gray water sand	3	11
Yellow clay and sand	1	12
Brown clay and sand	1	13
Yellow sandy clay	3	16
Gray joint clay	1	17

Struck water at 10 feet.
Water level, 7.6 feet below top of ground, 5 hours after hole completed.
Water sample collected. Mar. 27, 1936.

Well 639

Hilltop, side of Highway 75, 3¼ miles north of Dew.

Red sandy clay	3	3
Red and yellow sandy clay	1	4
Yellow clay and sand	2	6
Brown clay and sand	1	7
Gray and yellow sand	3	10
Iron ore gravel	2	12
Gray and yellow sand	4	16
Gray sand and iron ore gravel	2	18
Gray silty sand	2	20
Iron ore gravel	6	26

Struck water at 22 feet.
Water sample collected. Mar. 12, 1936.

Well 643

Creek bottoms, Ben Baker tract, J. M. Hallmark Survey, 3¼ miles north of Dew.

Red sandy clay	1	1
Red and white sandy clay	2	3
Brown silty sand	3	6
Gray and yellow silty sand	1	7
Brown silty sand	1	8
Coarse yellow sand	2	10
Coarse brown and yellow sand	2	12
Coarse brown sand	4	16
Coarse gray sand	10	26

Struck water at 15 feet.
Water sample collected. Apr. 25, 1936.

Well 645

Hillside, side of Highway 75, 1½ miles north of Dew.

Blue sandy clay	3	3
Yellow sandy clay	1	4
Gray and yellow sandy clay	1	5
Coarse gray sand	1	6
Brown sand	1	7
Gray and yellow sandy clay	5	12
Brown and purple silty sand	1	13
Damp black sandy clay	1	14
Brown soapstone	1	15
Gray and yellow silty sand	1	16
Gray sandy soapstone	1	17
Gray silty sand	1	18
Yellow silty sand	2	20
Gray joint clay	1	21

Struck w ater at 20 feet.
Water level, 13.6 feet below top of ground, 100 hours after hole completed.
Water sample collected. Mar. 27, 1936.

Well 646

Hilltop, Oscar Johnson tract between Dew Highway and Highway 75, 2 miles northwest of Dew.

Yellow surface sand	2	2
Stiff yellow sandy clay	2	4
Gray clay and sand	4	8
Gray sandy clay	4	12
Yellow silty sand	4	16
Purple silty sand	1	17
Yellow clay and sand	5	22

No water sample collected. Mar. 24, 1936

Well 652

Gentle slope, J. A. Harrison tract near Highway 75, ½ mile south of Dew.

Red and yellow sandy clay	2	2
Stiff red and yellow clay	1	3
Stiff yellow clay	1	4
Yellow clay and sand	1	5

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 652--Continued		
Gray clay and sand	1	6
Stiff brown clay	1	7
Stiff purple clay	1	8
Gray clay and sand	3	11
Coarse yellow sand	7	18
Red sand rock		18
No water sample collected. Mar. 27, 1936		

Well 656

Hillside, Mrs. Black tract, J. M. Hallmark Survey, 1-3/4 miles northeast of Dew.

Yellow surface sand	1	1
Yellow sandy clay	1	2
Yellow clay and sand	4	6
Iron ore gravel	1	7
Coarse yellow sand	8	15
Coarse white sand	5	20
Coarse brown sand	2	22
Brown packed sand	2	24
Hard packed sand		24
No water sample collected. Apr. 25, 1936		

Well 657

Side of draw, M. A. Black tract near Lanely road, 1-3/4 miles northeast of Dew.

Yellow surface sand	3	3
Red sandy clay	2	5
Red and white sandy clay	1	6
Coarse yellow sand	4	10
Coarse brown sand	1	11
Coarse white sand	3	14
Coarse yellow sand	7	21
Coarse white sand	4	25
Coarse yellow sand	7	32
Gray sandy soapstone	1	33
No water sample collected. Apr. 25, 1936		

Well 658

Gentle slope, B. M. Burgher tract, 3 miles south of Highway 7, 5½ miles northeast of Dew.

Stiff red clay	1	1
Red and yellow clay	2	3
Stiff yellow clay	1	4
Coarse yellow sand	5	9
Coarse gray sand	2	11
Coarse gray and yellow sand	1	12
Coarse gray sand	1	13
Gray and yellow sandy clay	4	17
Gray clay and sand	1	18
Coarse gray and yellow sand	4	22
Coarse yellow sand	2	24
Coarse gray sand	4	28
Coarse gray and yellow sand	2	30
Coarse white sand	2	32
Iron ore gravel	2	34
No water sample collected. Apr. 29, 1936		

Well 659

Hillside, E. E. Williford tract, 4½ miles northeast of Dew

Coarse yellow sand	4	4
Red and white silty sand	1	5
Red and white sandy clay	3	8
Coarse red sand	2	10
Iron ore rock		10
No water sample collected. Apr. 29, 1936		

Well 660

Hillside, E. Millican tract near Highway 7, 9 miles northeast of Dew.

Yellow surface sand	1	1
Yellow clay and sand	5	6
Red and yellow clay and sand	2	8
Red and white soapstone	5	11
Gray soapstone	2	13
Iron ore rock		13
No water sample collected. Apr. 9, 1936		

Well 661

Gentle slope, P. D. C. Ball Estate, 1½ miles south of Highway 7, 8 miles northeast of Dew.

Coarse yellow sand	8	8
Coarse orange sand	5	13
Coarse yellow and white sand	2	15
Orange packed sand	3	18
Red packed sand	6	24
Coarse salmon colored sand	5	29
Struck water (seep) at 7 feet.		
Struck water at 25 feet.		
No water sample collected. May 6, 1936		

Well 664

Hillside, G. J. Weaver tract, 3½ miles south of Highway 7, 7 miles northeast of Dew.

Yellow surface sand	8	8
Coarse yellow white sand	1	9
Coarse brown and white sand	6	15
Brown sand	12	27
Coarse quicksand		27
No water sample collected. May 6, 1936.		

Well 666

Hillside, L. R. Boyd tract near Turlington road, 4-3/4 miles east of Dew.

Brown surface sand	2	2
Brown sandy clay	2	4
Coarse yellow sand	10	14

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 666--Continued		
Coarse white sand	14	28
Coarse yellow and white sand	1	29
No water sample collected. Apr. 29, 1936		

Well 669

Side of draw, A. C. Anderson tract near Lanely road, 3¼ miles east of Dew.

Coarse yellow sand	1	1
Coarse orange sand	1	2
Red clay and sand	1	3
Red and white sandy clay	1	4
Red sandy clay	1	5
Yellow sandy clay	4	9
Purple sandy clay	2	11
Iron ore rock		11
No water sample collected. Apr. 29, 1936		

Well 671

Hillside, M. E. Gehrels tract near old Buffalo road, 3 miles east of Dew.

Coarse yellow sand	1	1
Yellow sandy clay	1	2
Stiff yellow clay	1	3
Gray and yellow sandy clay	5	8
Gray clay and sand	2	10
Brown and gray sandy clay	4	14
Gray joint clay	1	15
Black soapstone	1	16
Gray sandy clay	5	21
Hard red sand rock		21
No water sample collected. May 18, 1936		

Well 672

Hillside, G. Parrish tract near Highway 75, 2 miles south of Dew.

Yellow surface sand	1	1
Red sandy clay	2	3
Red and yellow sandy clay	2	5
Red clay and sand	1	6
Coarse yellow sand	8	14
Black yellow sand	2	16
Gray sandy soapstone	2	18
Yellow sand and gray soapstone	1	19
Gray soapstone	1	20
Gray and yellow soapstone	1	21
Gray clay and sand	2	23
Iron ore rock		23
No water sample collected. Apr. 2, 1936		

Well 673

Hillside, F. E. Hill tract near old Buffalo road, 4¼ miles southeast of Dew.

Orange sandy clay	3	3
Red clay and sand	1	4
Red and yellow sandy clay	2	6
Orange sand	1	7
Fine yellow sand	1	8
Fine orange sand	1	9
Red sandy clay	1	10
Yellow sandy clay	1	11
Orange sandy clay	2	13
Fine brown and yellow sand	4	17
Brown gravelly sand	1	18
Coarse white sand	13	31
Coarse yellow sand	3	34
Coarse yellow and white sand	5	39
Coarse orange sand	1	40
Coarse yellow sand	5	45
No water sample collected. May 18, 1936		

Well 674

Hillside, O. W. Killian tract near Buffalo road, 4-3/4 miles east of Dew.

Yellow gravel and sand	1	1
Red clay and sand	2	3
Purple clay and sand	1	4
Yellow clay and sand	7	11
Fine salmon colored sand	1	12
Yellow silty sand	3	15
Yellow and white silty sand	2	17
Red silty sand	1	18
Salmon colored silty sand	1	19
Yellow and white silty sand	3	22
White clay and sand	2	24
Yellow clay and sand	1	25
Yellow silty sand	4	29
White clay and sand	1	30
Yellow silty sand	1	31
White clay and sand	1	32
Struck water (seep) at 18 feet.		
Struck water at 20 feet.		
No water sample collected. Apr. 29, 1936		

Well 678

Edge of draw, E. Goodwin tract near Oakwood road, 6 miles east of Dew.

Brown surface sand	1	1
Coarse red sand	3	4
Red gravel and sand	5	9
Red clay and sand	4	13
Caving		13
Struck seep water at 7 feet.		
Water sample collected. Apr. 30, 1936		

Well 680

Hillside, J. B. Parker tract near Oakwood road, 9½ miles east of Dew.

Brown surface sand	1	1
Coarse yellow sand	1	2
Yellow clay and sand	1	3
Red sandy clay	2	5
Red clay and sand	1	6

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 680--continued		
Orange clay and sand	5	11
Brown clay and sand	6	17
Coarse red sand	1	18
Brown clay and sand	1	19
Coarse brown and yellow sand	1	20
Coarse black and yellow sand	2	22
Coarse black and brown sand	1	23
Black sandy shale	4	27
Hard shale		27
No water sample collected. June 3, 1936		

Well 684

Flat, L. Jordan tract near Oakwood road, 8 miles east of Dew.

White surface sand	1	1
Stiff red clay	2	3
Stiff yellow clay	1	4
Yellow sandy clay	3	7
Gray and yellow sandy clay	3	10
Gray silty sand	3	13
Gray water sand	1	14
Purple and yellow silty sand	2	16
Gray clay and sand	3	19
Stiff blue clay	3	22
Blue sandy clay	3	25
Struck water at 14 feet.		
Water sample collected. Apr. 30, 1936		

Well 685

Flat, Jim Jones tract, H. C. Stagner Survey, 8 miles east of Dew.

Coarse brown sand	7	7
Orange sandy clay	4	11
Coarse yellow sand	4	15
Coarse white sand	4	19
Coarse yellow sand	2	21
Coarse white sand	2	23
Coarse yellow sand	10	33
Struck water at 31 feet.		
Water sample collected. June 4, 1936		

Well 689

Gentle slope, C. Q. Johnson tract, 7 miles east of Dew.

Yellow surface sand	1	1
Red and yellow sandy clay	2	3
Stiff red and yellow clay	1	4
Stiff red clay	2	6
Red and white sandy clay	5	11
Gray sandy clay	1	12
Brown clay and sand	1	13
Orange clay and sand	1	14
Coarse yellow sand	1	15
Brown clay and sand	3	18
Coarse yellow sand	1	19
Brown clay and sand	1	20
Coarse yellow sand	5	25
Coarse gray sand	9	34
No water sample collected. June 4, 1936		

Well 690

Flat, J. H. Johnson tract near Buffalo road, 5½ miles east of Dew.

Brown surface sand	2	2
Yellow silty sand	1	3
Red and yellow sandy clay	1	4
Red and yellow silty sand	2	6
Red sandy clay	4	10
Red and white sandy clay	2	12
Stiff yellow and white clay	1	13
Coarse white sand	1	14
Coarse orange sand	1	15
Yellow and white sandy clay	2	17
White sandy clay	1	18
Yellow sandy clay	1	19
Gray sandy clay	3	22
Coarse yellow sand	1	23
Purple and yellow silty sand	2	25
Gray and yellow silty sand	1	26
Purple and yellow silty sand	3	29
Coarse yellow sand	1	30
No water sample collected. Apr. 30, 1936		

Well 694

Gentle slope, E. E. Williford tract near Buffalo road, 6 miles southeast of Dew.

Red sandy clay	1	1
Stiff red clay	1	2
Stiff gray clay	3	5
Coarse yellow sand	2	7
Yellow sandy clay	1	8
Coarse yellow sand	1	9
Gray sandy clay	2	11
Gray clay and sand	1	12
Purple sandy clay	1	13
Coarse gray sand	4	17
Purple and yellow sandy clay	1	18
Coarse purple and brown sand	2	20
Struck water at 15 feet.		
Water sample collected. Apr. 30, 1936		

Well 695

Hillside, E. L. Smith tract near Highway 75, 4 miles south of Dew.

Brown surface sand	3	3
Coarse yellow sand	4	7
Coarse white sand	1	8
Yellow quicksand	8	16
Struck water at 8½ feet.		
No water sample collected. Apr. 2, 1936		

Logs of W. P. A. test wells in Freestone County--Continued

Well 696

Hillside, W. D. Stafford tract, ¼ mile south of Marshy Springs, 6 miles southeast of Dew.

	Thickness (feet)	Depth (feet)
Yellow surface sand	1	1
Red clay and sand	4	5
Coarse yellow sand	2	7
Coarse gray sand	11	18
Fine white sand	1	19
Fine yellow sand	4	23
Fine white sand	6	29

No water sample collected. Apr. 2, 1936

Well 697

Gentle slope, N. Ezell tract, ½ mile east of Highway 75, 6½ miles southeast of Dew.

	Thickness (feet)	Depth (feet)
Brown surface sand	1	1
Orange clay and sand	1	2
Red sandy clay	1	3
Orange clay and sand	2	5
Coarse orange sand	5	10
Coarse brown sand	8	18
Brown gravel and sand	4	22
Yellow gravel and sand	2	24
Brown gravel	1	25
Gray water sand	2	27

Struck water at 23 feet.
Water sample collected. May 18, 1936

Well 698

Hilltop, T. E. Bently tract near Buffalo road, 7 miles southeast of Dew.

	Thickness (feet)	Depth (feet)
Brown surface sand	1	1
Stiff red clay	2	3
Yellow sandy clay	2	5
Yellow clay and sand	3	8
Yellow silty sand	3	11
White and yellow silty sand	7	18
White packed sand	5	23
White and yellow packed sand	1	24
Hard packed sand		24

No water sample collected. Apr. 30, 1936

Well 699

Gentle slope, Franz Thiele tract 1 mile north of county line, T. C. RR. Survey, 8½ miles east of Dew.

	Thickness (feet)	Depth (feet)
Coarse yellow sand	6	6
Coarse white sand	2	8
White quicksand	2	10
Caving		10

Struck water at 9 feet.
No water sample collected. June 4, 1935

Well 700

Hilltop, D. Brown tract, W. L. Benson Survey, 9 miles southeast of Dew.

	Thickness (feet)	Depth (feet)
Coarse yellow sand	15	15
Red and yellow sand	8	23
Yellow sand	1	24
Red and yellow sand	3	27
Coarse red sand	7	34

No water sample collected. June 4, 1936

Well 701

Hillside, J. S. Graham tract, near Buffalo road, 8 miles southeast of Dew

	Thickness (feet)	Depth (feet)
White surface sand	1	1
Gray sandy clay	2	3
Gray and red sandy clay	2	5
Gray and yellow sandy clay	2	7
Gray sandy clay	1	8
Brown sandy clay	3	11
Yellow clay and sand	3	14
Yellow silty sand	1	15
Brown gravel and sand	1	16
Yellow silty sand	1	17
White silty sand	1	18
Gray gravel and sand	1	19
Coarse yellow sand	1	20
Iron ore rock		20

No water sample collected. Apr. 30, 1936

Well 702

Hilltop, T. M. Goodson tract, 1/2 mile north of county line near Highway 75, 8 miles southeast of Dew.

	Thickness (feet)	Depth (feet)
Stiff yellow clay	2	2
Gray and yellow sandy clay	2	4
Coarse yellow sand	1	5
Coarse white sand	5	10
Brown iron ore sand	1	11
Yellow clay and sand	2	13
Fine yellow sand	2	15
Fine red and gray sand	5	20
Fine gray and yellow sand	1	21
Coarse brown sand	1	22
Yellow clay and sand	1	23
Fine yellow sand	1	24
Brown iron ore sand	1	25
Fine white sand	1	26
Fine yellow sand	1	27
Fine brown sand	1	28
Fine yellow sand	1	29

No water sample collected. Mar. 27, 1936

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 800		
Gentle slope near hilltop, E. Mixon tract, 3-3/4 miles west of Teague.		
Red clay and sand	2	2
Red and gray clay	1	3
Gray and yellow sandy clay	1	4
Gray soapstone	2	6
White soapstone	5	11
Yellow sandy clay	1	12
Yellow sand and clay	2	14
Sand rock		14
No water sample collected. Feb. 28, 1936		
Well 801		
Creek bottoms, A. Dobbins tract, 3-3/4 miles southwest of Teague.		
Brown sand	1	1
Yellow sand	9	10
Gray and yellow sand	14	24
Sandstone		24
Struck water at 5 feet.		
No water sample collected. Feb. 28, 1936		
Well 802		
Level land, L. Davis tract, 2½ miles southwest of Teague.		
Brown sand	1	1
Gray and yellow sand	1	2
Gray sandy clay	2	4
Gray clay	1	5
Gray sandy clay	1	6
Yellow clay and sand	6	12
Gray and yellow sandy clay	1	13
White silty sand	3	16
Yellow silty sand	6	22
Blue and gray soapstone	2	24
Gray silty sand	5	29
Struck water at 26 feet.		
Water level, 20.2 feet below top of ground, 24 hours after hole completed.		
Water sample collected. Feb. 27, 1936		
Well 803		
Hilltop, on side of county road, 1-3/4 miles southwest of Teague.		
Gray sand	1	1
Brown sandy clay	1	2
Gray sandy clay	2	4
Yellow sand	1	5
Yellow clay and sand	1	6
Gray soapstone	2	8
Rock		8
No water sample collected. Feb. 27, 1936		
Well 804		
Level land, near creek bottoms, J. Hagans tract, 1-3/4 miles west of Teague.		
Yellow sand	5	5
Yellow and gray clay	4	9
Yellow sand	2	11
Rock		11
No water sample collected. Mar. 6, 1936		
Well 805		
Gentle slope, 3/4 mile from R. R. tracks in Teague, 25 yards east of city limits on highway to Dew, 1-3/4 miles east of Teague.		
Brown sand	1	1
Red and yellow sandy clay	1	2
Brown sandy clay	1	3
Grayish-yellow sandy clay	2	5
Gray and yellow sandy clay	2	7
Gray and yellow sand	1	8
Gray and yellow sandy clay	1	9
Gray and yellow sand	4	13
Gray and yellow clay and sand	1	14
Yellow clay and sand	1	15
Purplish-yellow clay and sand	3	18
Gray and yellow sandy clay	2	20
Purple and yellow sandy clay	2	22
Gray and yellow sandy clay	3	25
Blue and gray shale	4	29
Struck water at 20 feet.		
Water level, 19.1 feet below top of ground, ¼ hour after hole completed.		
No water sample collected. Feb. 19, 1936		
Well 807		
Gentle slope, Jim Roger tract, on side road ¼ mile south of Highway 7, 1¼ miles east of Teague.		
Yellow sand	1	1
Yellow and gray sandy clay	2	3
Red and gray clay	2	5
Gray and brown sandy clay	1	6
Gray and yellow sandy clay	9	15
Gray packed sand	3	18
White sand	1	19
Yellow sand and gray clay	1	20
Yellow and gray sand	3	23
Gray clay and sand	4	27
Gray and yellow sand	2	29
No water sample collected. Feb. 3, 1936		

Well 809

Edge of draw, on side of road 100 yards north of Highway 7, w miles northeast of Teague.

	Thickness (feet)	Depth (feet)
Red and gray clay	1	1
Gray and yellow sandy clay	3	4
Gray clay	2	6
Yellow clay	1	7
Gray clay	1	8
Sticky gray and yellow clay	5	13
Stiff and sticky gray clay	5	18
Gray and yellow sandy clay	3	21
Gray clay	1	22
Brown and red clay	1	23
Lignite and water	1	24

Water level, 13.3 feet below top of ground, 23 hours after hole completed.
Water sample collected. Feb. 1, 1936.

Well 812

Hilltop, C. D. Lindsey tract, 3-3/4 miles northeast of Teague.

	Thickness (feet)	Depth (feet)
Black sandy soil	1	1
Yellow and sticky sandy clay	2	3
White and red clay and sand	2	5
White and yellow sandy clay	2	7
Fine, dry, white sand	2	9
Fine, dry, yellow sand	2	11
Dry white sand and clay	1	12
Fine, dry, yellow sand	3	15
Red, yellow, and white sandy clay	2	17
Damp gray sand	1	18
Damp gray sandy clay	1	19
Gray and yellow sand	1	20
Gray and yellow sandy clay	3	23
Yellow silty micaceous sand	1	24
Gray and yellow sandy clay	2	26
Gray sand and clay	2	28
Gray and yellow silty sand	6	34

Water level, 26.2 feet below top of ground, 3 hours after hole completed.
Water sample collected. Jan. 31, 1936.

Well 816

Gentle slope, on side of Highway 7, 4¼ miles northeast of Teague.

	Thickness (feet)	Depth (feet)
Yellow clay and sand	2	2
Stiff gray sandy clay	5	7
Yellow clay and sand	1	8
Gray sandy clay	2	10
Gravel and yellow clay	6	16
Yellow sandy clay	1	17
Gray and yellow sandy clay	10	27
Gray and sand	2	29
Yellow sandy clay	1	30

Struck water at 27 feet.
Water level, 20.2 feet below top of ground, 19 hours after hole completed.
Water sample collected. Jan. 31, 1936

Well 818

Level land, Tex Hullum tract, 4¼ miles east of Teague.

	Thickness (feet)	Depth (feet)
Brown sand	2	2
Yellow sand	1	3
Yellow clay and sand	1	4
Red and yellow sandy clay	2	6
Yellow and gray sand	4	10
Yellow sand	1	11
Brown and yellow sand	1	12
Yellow silty sand	3	15
Gray silty sand	1	16
Yellow silty sand	7	23
Rock		23

Struck water at 12 feet.
Water level, 12.0 feet below top of ground, ¼ hour after hole completed.
Water sample collected. Mar. 13, 1936.

Well 819

Hillside, P. R. French tract, 2-3/4 miles east of Teague.

	Thickness (feet)	Depth (feet)
Yellow sand	5	5
Red and yellow sand	2	7
Gray and red sand	1	8
Yellow sand	2	10
Gray sand	1	11
Yellow sand	4	15
Gray sandy clay	1	16
Gray clay and sand	4	20
Stiff yellow clay	5	25

Struck water at 7 feet.
Water level, 7.1 feet below top of ground, ¼ hour after hole completed.
Water sample collected. Mar. 13, 1936.

Well 822

Edge of draw, W. A. McKee tract, 20 yards north of highway culvert, on road to Dew, 2¼ miles east of Teague.

	Thickness (feet)	Depth (feet)
Brown sandy clay	2	2
Brown clay and sand	1	3
Yellow and gray sandy clay	3	6
Coarse gray sand	3	9
Gray and yellow sandy clay	7	16
Gray and yellow sand	6	22
Gray silty sand	7	29

Struck water at 24 feet.
Water level, 23.8 feet below top of ground, 3½ hours after hole completed.
Water sample collected. Feb. 5, 1936.

Well 823

Gentle slope, on side of road, 2¼ miles southeast of Teague.

	Thickness (feet)	Depth (feet)
Yellow sand	1	1
Brown and yellow sandy clay	1	2
Red and gray sandy clay	3	5
Red and gray sand	7	12

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 823--Continued		
Gray and yellow sand	1	13
Silty gray water sand	11	24
Stiff, purple sandy clay	5	29
Struck water at 12 feet.		
No water sample collected. Feb. 10, 1936		

Well 825

Creek bottoms, H. C. McMichael tract, 2½ miles south of Teague.

Yellow sand	5	5
Yellow quicksand	6	11
Quicksand		11
Struck water at 6 feet.		
No water sample collected. Feb. 10, 1936		

Well 826

Edge of shallow draw, on side of road to Donie, 1½ miles south of Teague.

Brown sand	1	1
Brown clay and sand	1	2
Gray sandy clay	2	4
Gray and yellow sandy clay	2	6
Purple and yellow sandy clay lignite	1	7
Gray sandy clay	1	8
Gray and yellow sandy clay	3	11
Gray and yellow sand	4	15
Gray silty sand	6	21
Yellow sand	1	22
Purplish-brown clay and sand	1	23
Black packed sand	2	25
Struck water at 12 feet.		
Water level, 7.2 feet below top of ground, 48 hours after hole completed.		
Water sample collected. Feb. 21, 1936		

Well 831

Gentle slope near hilltop, on side of road to Donie, 3 miles south of Teague.

Brown sand	1	1
Red and yellow clay and sand	3	4
Red and gray clay and sand	2	6
Gray and yellow sand	2	8
Gray and yellow sandy clay	5	13
Gray and yellow sand	2	15
Gray silty sand	1	16
Gray and yellow sand	4	20
Fine yellow sand	3	23
Gray clay and sand	1	24
Gray packed sand	1	25
Fine yellow sand	4	29
No water sample collected. Feb. 21, 1936		

Well 832

Gentle slope near hilltop, on road to Cedar, 4 miles south of Teague.

Yellow sandy clay	2	2
Gray clay	2	4
Gray sandy clay	1	5
Decayed vegetation	1	6
Gray sandy clay	1	7
Yellow clay and sand	1	8
Yellow sand	5	13
Yellow clay and sand	2	15
Gray and yellow clay	1	16
Gray soapstone	3	19
Gray sandy soapstone	5	24
Yellow soapstone and sand	1	25
Yellow sandstone	1	26
No water sample collected. Feb. 27, 1936		

Well 834

Gentle slope, near hilltop, on side of road to Donie, 4¼ miles south of Teague.

Brown sand	1	1
Yellow clay and sand	1	2
Gray sandy clay	1	3
Gray and yellow sandy clay	3	6
Yellow sand	1	7
Gray clay and sand	3	10
Gray and yellow sand	3	13
Yellow clay and sand	3	16
Rock		16
Struck water at 12 feet.		
Water level, 13.7 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Feb. 21, 1936		

Well 838

Gentle slope, J. B. Washburn tract on side rode, 300 yards east of RR. 3-3/4 miles south of Teague.

Yellow sand	1	1
Yellow clay and sand	2	3
Red and gray sandy clay	5	8
Gray and yellow sand	6	14
Gray quicksand	12	26
Struck water at 14 feet.		
Water level, 13.2 feet below top of ground, 48 hours after hole completed.		
Water sample collected. Feb. 10, 1936		

Well 840

Gentle slope, J. B. Washburn tract, 3-3/4 miles southeast of Teague.

Stiff dark brown and red sandy clay	2	2

(Continued on next page)

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 840--Continued		
Brown sandy clay	2	2
Gray and yellow sandy clay	3	7
Fine brown sand	1	8
Fine white sand	1	9
Fine yellow sand	20	29
No water sample collected. Feb. 11, 1936		
Well 843		
Creek bottoms, T. G. Blackman, 3¼ miles southeast of Teague.		
Yellow sand	1	1
Red and gray sandy clay	2	3
Yellow and gray sand	2	5
Silty gray sand	14	19
Purplish-gray sand	1	20
Gray silty sand	5	25
Struck water at 6 feet.		
Water level, 4.2 feet below top of ground, 17 hours after hole completed		
No water sample collected. Feb. 10, 1936		
Well 845		
Gentle slope, E. O. Cassin tract, 4 miles east of Teague.		
Yellow sand	3	3
Red and yellow sandy clay	4	7
Yellow sand	6	13
Gray sand	1	14
Fine yellow sand	15	29
Struck water at 25 feet.		
Water level, 22.8 feet below top of ground, 48 hours after hole completed.		
Water sample collected. Feb. 11, 1936		
Well 846		
Gentle slope, near edge of draw, on side of highway, 3-3/4 miles east of Teague.		
Brown and yellow sandy clay	4	4
Grey and yellow sandy clay	2	6
Gray and black sandy clay	1	7
Gray and yellow sandy clay	4	11
Gray and yellow silty sand	4	15
Grey and yellow sandy clay	2	17
Black and yellow sandy clay	3	20
Gray and yellow sandy clay	4	24
Struck water at 14 feet.		
Water level, 2.2 feet below top of ground, 48 hours after hole completed.		
Water sample collected. Feb. 5, 1936.		
Well 848		
Hillside, R. A. Pickett tract, 4-3/4 miles east of Teague.		
Brown sand	2	2
Red sandy clay	1	3
Orange-colored sand	1	4
Yellow sand	2	6
Gray sand	2	8
Gray clay and sand	5	13
Gray sand	1	14
Yellow sand	2	16
Gray silty sand	1	17
Purple sand	2	19
Gray water sand	10	29
Struck water at 20 feet.		
Water level, 13.0 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 13, 1936		
Well 855		
Hilltop, Minnie McDonald tract, 6 miles east of Teague.		
Brown sand	1	1
Red sandy clay	2	3
Red clay	1	4
Light red sandy clay	2	6
Orange sand	1	7
Fine yellow sand	12	19
Yellow sand and iron ore gravel	2	21
Yellow sandy clay	1	22
Yellow water sand	7	29
Struck water at 20 feet.		
Water level, 20.7 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 12, 1936		
Well 856		
Gentle slope, D. Daniels tract, 25 yards north of Dew highway, 5½ miles east of Teague.		
Stiff gray clay	4	4
Stiff gray and yellow sandy clay	1	5
Gray and yellow sandy clay	11	16
Gray sandy clay	3	19
Gray sand	2	21
Gray and yellow sand	3	24
Yellow sand and clay	5	29
Struck water at 24 feet.		
Water level, 16.6 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Feb. 7, 1936		
Well 857		
Gentle slope, corner at intersection at side road and highway, 7½ miles east of Teague.		
Yellow sand	1	1
Yellow sandy clay	3	4
Gray and yellow sandy clay	2	6
Gray and yellow sand and clay	3	9

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 857--Continued		
Gray sandy clay	1	10
Gray and yellow sandy clay	2	12
Yellow clay and sand	1	13
Gray and yellow sandy clay	3	16
Sticky brown sand	1	17
Spongy lignite	1	18
Brownish-purple clay	1	19
Gray silty sand	9	28
Struck water at 24 feet.		
Water level, 21.0 feet below top of ground, 48 hours after hole completed.		
Water sample collected. Feb. 7, 1936.		

Well 862

Gentle slope, Bill Moore tract, D. Avant Survey, 7 miles east of Teague.

Brown surface sand	1	1
Stiff yellow sandy clay	2	3
Brown sandy clay	2	5
Brown and yellow sand and clay	1	6
Coarse yellow sand	5	11
Grey silty sand	5	16
Gray clay and sand	2	18
Damp, sticky, gray clay	5	23
Black soapstone	2	25
No water sample collected. Mar. 24, 1936		

Well 864

Hillside, B. L. Seely tract, 4¼ miles southeast of Teague.

Brown sand	1	1
Red sandy clay	2	3
Yellow sandy clay	2	5
Gray sandy clay	1	6
Yellow sand	5	11
White silty sand	1	12
Yellow sand	6	18
Brown clay and sand	3	21
Purple sandy clay	1	22
Yellow clay and sand	4	26
Yellow sand	2	28
Blue soapstone	2	30
Struck water at 28 feet.		
Water level, 28.8 feet below top of ground, ½ hour after hole completed.		
Water sample collected. Mar. 11, 1936.		

Well 868

Hilltop, Lee Carter tract, R. B. Gilliam Survey, 5½ miles south of Teague.

Red and white sandy clay	3	3
Coarse gray and yellow sand	2	5
Coarse brown sand	1	6
Coarse yellow sand	1	7
Brown gravel and sand	1	8
Gray clay and sand	2	10

	Thickness (feet)	Depth (feet)
Well 868--Continued		
Brown clay and sand	1	11
Gray clay and sand	3	14
Gray sandy soapstone	2	16
Gray and brown soapstone	2	18
Brown sandy soapstone	1	19
Gray clay and sand	2	21
Coarse yellow sand	4	25
Coarse brown sand	1	26
Gray and yellow sand	8	34
Struck water at 30 feet.		
Water sample collected. May 11, 1936.		

Well 869

Hilltop, J. E. Gregory tract, 1/4 mile east of county line, 3½ miles west of Freestone.

Stiff red clay	1	1
Red sandy clay	1	2
Fine salmon-colored sand	2	4
Fine yellow sand	4	8
Gray sandy clay	4	12
Yellow sandy clay	4	16
Gray soapstone	10	26
Black soapstone	2	28
Blue packed sand	2	30
Hard packed sand		30
No water sample collected. May 11, 1936		

Well 870

Hillside, C. J. Martin Estate near Providence road, J. L. Chavert Survey 2½ miles southwest of Freestone.

Red sandy clay	3	3
Salmon-colored clay and sand	2	5
Yellow clay and sand	2	7
Coarse yellow sand	1	8
Coarse gray and yellow sand	5	13
Yellow sand	5	18
Gray soapstone	1	19
Hard soapstone		19
Struck water at 10 feet.		
Water sample collected. May 11, 1936.		

Well 871

Flat, M. Savage tract, 1½ miles west of Freestone.

Red sandy clay	4	4
Dark brown sand	2	6
Light brown sand	1	7
Yellow silty sand	11	18
Gray silty sand	8	26
Gray and yellow sand	3	29
Struck water at 27 feet.		
Water level, 26.4 feet below top of ground, 5 hours after hole completed.		
Water sample collected. Feb. 24, 1936		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 876		
Creek bottoms, John Epps tract, ½ mile northeast of Freestone.		
Brown sand	2	2
Yellow sand	1	3
Red and yellow clay and sand	3	6
Gray and yellow sand	1	7
White silty quicksand	9	16
Yellow quicksand	1	17
Struck water at 8 feet.		
Water level, 5.4 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 11, 1936		
Well 880		
Hillside, W. J. Shelley tract, 2 miles northeast of Freestone.		
Brown sand	3	3
Red and yellow sandy clay	2	5
Gray sandy clay	1	6
Coarse yellow sand	2	8
Coarse gray sand	1	9
Gray and yellow sand	4	13
Gray silty sand	3	16
Brown silty sand	3	19
Gray sand	4	23
Yellow sand	2	25
Struck water at 19 feet.		
Water level, 14.1 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 11, 1936.		
Well 883		
Gentle slope, Al Philpott tract, J. F. Moffett Survey, 3½ miles northeast of Freestone.		
Brown sandy clay	2	2
Stiff yellow clay	2	4
Stiff light brown clay	1	5
Gray and yellow sandy clay	3	8
Gray and yellow soapstone	1	9
Gray soapstone	6	15
Gray and yellow sandy soap stone	3	18
Coarse yellow sand	7	25
Coarse brown sand	1	26
Black soapstone	2	28
No water sample collected. Mar. 24, 1936		
Well 886		
Hilltop, Wm. Franklin tract, H. C. Cook Survey, 5 miles east of Freestone.		
Brown surface sand	1	1
Coarse yellow sand	1	2
Red and yellow sandy clay	2	4
Stiff yellow clay and gray sand	1	5
Coarse brown sand	1	6
Gray clay and sand	1	7
Coarse yellow sand	1	8
Fine gray sand	2	10
Fine yellow sand	2	12
Brown sand	1	13
Brown clay and iron ore gravel	1	14
Fine yellow sand	4	18
Fine gray sand	2	20
Coarse gray sand	5	25
Gray sand and soapstone	1	26
Coarse white sand	3	29
Coarse yellow sand	4	33
No water sample collected. Mar. 25, 1936		
Well 889		
Hillside, Gilliam Poindexter tract, H. C. Cook Survey, 6 miles east of Freestone.		
Brown surface sand	1	1
Coarse yellow sand	1	2
Yellow sandy clay	2	4
Red and yellow sandy clay	4	8
Yellow sandy clay	2	10
Yellow sand	9	19
Gray sandy clay	1	20
Yellow silty sand	4	24
Yellow sand and blue soapstone	1	25
Blue sand	1	26
Blue sandy clay	2	28
No water sample collected. Mar. 25, 1936		
Well 890		
Hilltop, Wm. Oliver tract near Buffalo road, 3-3/4 miles east of Freestone.		
Coarse yellow sand	7	7
Coarse red and yellow sand	1	8
Salmon-colored sand	1	9
Coarse red and white sand	7	16
Coarse yellow sand	1	17
Coarse red and yellow sand	1	18
Damp yellow sand	3	21
Gray and yellow sand	4	25
Brown and gray sand	1	26
Damp gray sand	6	32
Gray clay	1	33
No water sample collected. May 8, 1936		
Well 891		
Hillside, J. A. Tucker tract near Buffalo road, 2½ miles east of Freestone.		
Stiff red clay	1	1
Stiff yellow clay	1	2
Stiff red and yellow clay	1	3

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 891--Continued		
Stiff gray clay	2	5
Gray and yellow sand	1	6
Fine gray sand	1	7
Fine purple sand	2	9
Stiff purple sand	2	11
Gray clay and sand	3	14
Gray sand	7	21
Gray and yellow sand	6	27
Struck water at 16 feet.		
Water sample collected. May 8, 1936		
Well 892		
Gentle slope, side of Donie road, 1-3/4 miles east of Freestone.		
Brown sandy clay	1	1
Stiff red clay	2	3
Brown sandy clay	1	4
Yellow sandy clay	3	7
Damp gray and yellow silty sand	9	16
Yellow silty sand	2	18
Gray silty sand	5	23
Grayish-;urple silty sand	1	24
Stiff gray clay	3	27
Struck water at 17 feet.		
Water level, 13.9 feet below top of ground, 5 hours after hole completed.		
Water sample collected. Mar. 17, 1936		
Well 895		
Gentle slope, Doyle Tacker tract near Luna road, 2 miles southeast of Freestone		
Brown sandy clay	1	1
Stiff brown clay	2	3
Stiff yellow clay	1	4
Yellow clay and sand	2	6
Brown clay and sand	1	7
Gray and yellow soapstone	3	10
Gray soapstone	3	13
Rock		13
No water sample collected. Mar. 17, 1936		
Well 896		
Flat, Doyle Newsome tract near Donie road 1-3/4 miles south of Freestone.		
Brown sandy clay	2	2
Brown and yellow sandy clay	2	4
Yellow sandy clay	2	6
Brown sand	1	7
Iron ore gravel and sand	1	8
Yellow sand	1	9
Gray clay and sand	2	11
Gray and yellow silty sand	3	14
Gray and brown clay and sand	1	15
Gray silty sand	3	18
Gray and yellow silty sand	10	28
Stiff bluish-gray sandy clay	1	29
Soapstone		29
Struck water at 18 feet.		
Water level, 14.9 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Feb. 24, 1936.		
Well 899		
Gentle slope, W. R. Lummus tract near Donie road, J. L. Chavert Survey, 3½ miles southwest of Freestone.		
Yellow surface sand	1	1
Stiff red and yellow clay	2	3
Stiff gray clay	2	5
Gray and yellow clay and sand	2	7
Coarse gray sand	3	10
Gray soapstone	1	11
Coarse yellow sand	2	13
Coarse gray yellow sand	2	15
Coarse brown sand	1	16
Coarse gray sand	2	18
Yellow silty sand	1	19
Yellow clay and sand	1	20
Gray sandy clay	1	21
Yellow silty sand	1	22
Gray clay and sand	3	25
Grayish-purple soapstone	1	26
Coarse yellow sand	6	32
Struck water seep at 29 feet.		
No water sample collected. May 11, 1936		
Well 900		
Hillside, D. M. Worthy tract, 1,000 feet south of Sanders Creek, 3 miles south of Freestone.		
Gray and yellow clay and sand	1	1
Gray clay and yellow sand	1	2
Gray sandy shale	2	4
Fine white sand	5	9
Gray sandy shale	2	11
Gray sand	3	14
Gray sandy soapstone	1	15
Gray sand	1	16
Yellow sandy soapstone	1	17
Gray and yellow sandy soapstone	3	20
Hard soapstone		20
No water sample collected. Feb. 24, 1936		
Well 902		
Gentle slope, R. Howell tract near Teague road, 4 miles south of Freestone.		
Brown sand	1	1
Red and yellow clay and sand	2	3
Red and yellow sandy clay	2	5
Gray and yellow sandy clay	4	9

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Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 902--Continued		
Brown sand	1	10
Stiff gray clay	1	11
Gray sand	1	12
Yellow silty sand	1	13
Gray silty sand	9	22
Yellow sand and sandstone	1	23
Sandstone		23
Struck water at 18 feet.		
Water level, 17.4 feet below top of ground, 48 hours after hole completed.		
Water sample collected. Feb. 25, 1936		

Well 903

Gentle slope, J. T. Howell tract near Luna road, 3-3/4 miles southeast of Freestone.

Brown surface sand	1	1
Gray sandy clay	2	3
Gray clay and sand	1	4
Coarse yellow sand	3	7
Coarse gray sand	7	14
White silty sand	5	19
Gray silty sand	6	25
No water sample collected. Mar. 17, 1936.		

Well 904

Hillside, M. A. Webb tract near Buffalo road, 5½ miles east of Freestone.

Stiff red and gray clay	2	2
Stiff yellow clay	1	3
Stiff brown clay	2	5
Yellow silty sand	3	8
Coarse yellow sand	3	11
Yellow silty packed sand	9	20
Hard packed sand		20
No water sample collected. May 8, 1936.		

Well 905

Bottoms, Lou Varnell tract near Luna-Buffalo road, 7 miles east of Freestone

Brown surface sand	2	2
Fine gray sand	1	3
Fine brown sand	1	4
Yellow clay and sand	1	5
Red and yellow sand	2	7
Fine yellow sand	2	9
Gray sandy clay	1	10
Gray soapstone	4	14
Gray sandy soapstone	1	15
Yellow clay and gray sand	1	16
Coarse gray and yellow sand	1	17
Coarse white sand	1	18
Gray sandy clay	1	19
Gray silty sand	1	20
Stiff black clay	1	21
No water sample collected. Mar. 25, 1936		

Well 906

Hilltop, F. Folsom tract near Buffalo road, 8 miles east of Freestone.

Yellow surface sand	4	4
Red clay and sand	6	10
Coarse red and white sand	9	19
Coarse yellow sand	6	25
Coarse red and yellow sand	3	28
Coarse salmon-colored sand, dry	4	32
No water sample collected. May 8, 1936.		

Well 907

Hilltop, W. T. Adkins tract near Buffalo road, 8 miles southeast of Freestone.

Coarse yellow sand	10	10
Red clay and sand	3	13
Coarse red sand	5	18
Red and white sandy clay	2	20
Coarse yellow sand	1	21
Coarse red sand	3	24
Coarse yellow sand	3	27
Quicksand		27
Struck water at 27 feet.		
No water sample collected. May 25, 1936.		

Well 908

Hilltop, J. W. Moody tract near negro school, 6½ miles southeast of Freestone.

Yellow surface sand	3	3
Yellow clay and sand	2	5
Red and yellow clay and sand	1	6
Red and white sandy clay	4	10
Gray and yellow clay and sand	2	12
Gray clay and sand	2	14
Gray and yellow clay and sand	2	16
Yellow clay and sand	2	18
Brown sandy clay	2	20
Struck water at 9 feet.		
Water sample collected. May 25, 1936.		

Well 909

Side of draw, E. H. Sealey tract near Buffalo road, B. W. Brewer Survey, 5 miles southeast of Freestone.

Stiff red clay	1	1
Orange sandy clay	1	2
Yellow clay and sand	2	4
Coarse yellow sand	4	8
Coarse gray sand	1	9
Coarse yellow sand	2	11
Purple clay and sand	2	13
Coarse yellow sand	1	14
Gray and yellow clay and sand	4	18
Coarse gray and yellow sand	1	19
Purple clay and sand	3	22
Coarse gray and purple sand	9	31
Struck water at 19 feet.		
Water sample collected. May 25, 1936.		

Logs of W. P. A. test wells in Freestone County--Continued

	Thickness (feet)	Depth (feet)
Well 910		
Hillside, S. D. McAshan tract, 1¼ miles north of county line, G. Diaz Survey, 7 miles southeast of Freestone.		
Yellow surface sand	1	1
Red sandy clay	1	2
Stiff gray clay	1	3
Gray packed sand	2	5
Coarse yellow sand	1	6
Gray packed sand	2	8
Gray clay and sand	1	9
Coarse gray sand	3	12
Gray and brown packed sand	3	15
Coarse gray sand	1	16
Coarse gray and brown sand	4	20
Coarse gray and yellow sand	2	22
Gray sand	1	23
Coarse gray and yellow sand	2	25
Brown clay and sand	1	26
Coarse purple sand	1	27
Coarse gray s and, dry	3	30
No water sample collected. May 25, 1936		
Well 911		
Gentle slope, near creek, side of county road, 5 miles south of Freestone.		
Red clay and yellow sand	3	3
Gray and yellow sandy clay	2	5
Gray sand	1	6
Yellow clay and sand	2	8
Brown clay and sand	1	9
Yellow silty sand	2	11
Coarse gray and yellow sand	5	16
Blue sandy clay	5	21
No water sample collected. Feb. 25, 1936		
Well 912		
Hilltop, J. H. Robertson tract, 6 miles south of Freestone.		
White sand	6	6
Gray and yellow sand	3	9
White silty sand	1	10
Brown and orange sand	1	11
White clay and sand	3	14
Yellow clay and sand	1	15
White and yellow clay and sand	4	19
Gray and yellow clay and sand	2	21
Gray clay and sand	1	22
Yellow silty sand	3	25
No water sample collected. Feb. 25, 1936		

Partial analyses of water from wells in Freestone County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well number correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Total hardness as $CaCO_3$ (calculated)
3	W.P.A. test well	23	May 20, 1936	13,918	2,425	1,110	416	-	1,787	7,650	10,62[illegible]
4	do.	20	May 7, 1936	807	60	21	208	244	188	210	233
9	do.	21	do.	1,328	33	32	344	519	546	68	340
10	J. C. Kirren Estate	17	do.	420	-	-	-	220	126	39	-
12	W.P.A. test well	22	May 20, 1936	10,897	307	443	2,750	342	5,189	2,040	2,588
17	do.	24	Apr.20, 1936	3,405	134	90	947	464	1,206	800	705
23	Shilo School	42	Mar. 9, 1936	585	64	19	137	180	a/	275	237
24	D. R. Allen	24	do.	1,150	200	67	23	561	a/	530	773
25	J. C. Adams	31	do.	915	151	57	113	320	44	390	612
27	Mrs. Barnhill	12	do.	145	35	8	17	104	a/	33	96
28	Mrs. Ruth Baney	48	do.	666	81	38	106	397	115	218	360
29	W. P. A, test well	29	Mar. 23, 1936	210	-	-	-	183	26	15	-
30	Gilliam Poindexter	13	do.	169	32	12	14	92	31	35	127
31	W.P.A. test well	33	May 20, 1936	1,386	-	-	-	31	855	96	-
33	Ranson Stallworth	59	Mar. 23,1936	397	24	23	88	177	127	43	154
34	W.P.A. test well	29	Mar. 10,1936	822	122	47	82	42	356	194	501
35	Ellis Campbell	31	do.	238	32	11	55	140	100	20	126
36	J. C. McKinney	37	do.	213	30	10	41	159	a/	53	116
37	do.	50	do.	317	38	16	64	220	15	74	162
38	W.T. West	37	do.	316	25	13	32	244	28	46	116
40	do.	62	do.	338	54	20	47	195	48	72	217
41	Kaiser Kuyava	47	do.	380	42	21	75	293	56	40	192
43	Avery McKinney	67	do.	1,224	214	90	91	293	263	420	906
44	W.K. Manning	29	Mar. 5,1936	162	11	4	50	140	a/	27	45
45	New Hope School	34	do.	500	19	11	164	293	40	120	94
46	Mrs. J.H. Collins	45	do.	949	50	16	294	268	90	365	191
48	S. C. Smith	32	do.	92	8	6	12	12	52	8	47
49	Mrs. Winn	44	do.	1,035	30	58	302	265	104	460	315
50	W.P.S. test well	23	do.	504	31	11	152	360	58	72	124
51	Clay McKinney	32	do.	581	44	13	165	119	a/	300	160
52	L. V. Kennedy	40	do.	284	19	6	88	193	a/	73	73

Partial analyses of water from wells in Freestone County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Total hardness as $CaCO_3$ (calculated)
53	L.P. Robinson	29	Mar. 5, 1936	806	596	28	-	37	a/	164	264
56	Will Barkouskie	65	do.	890	145	67	89	366	111	295	638
59	Clifford Boyd	35	Feb. 20,1936	374	26	8	108	177	42	102	99
60	Lizzie Cox	40	do.	669	95	23	94	368	137	86	332
62	Winfrey's Service Station	347	do.	368	49	15	73	274	30	64	187
63	Withrow Gin Co.	20	Mar. 3, 1936	1,404	85	30	358	323	630	140	339
64	Cotton Gin School	22	do.	252	30	5	63	140	a/	84	95
65	Alderman & Alderman	36	do.	344	52	19	54	98	a/	170	207
67	J. D. Moffett	72	do.	526	83	27	76	192	40	204	321
68	Mrs. L. C. Traham	37	Mar. 9, 1936	2,071	357	140	68	296	108	1,250	1,467
69	W.P.A. test well	20	do.	7,648	1,290	533	757	384	336	4,540	5,416
71	Mrs. Hugh Day	23	Mar. 7, 1936	94	16	3	18	85	a/	15	53
72	Mrs. John Sweat	18	do.	292	23	16	66	30	a/	172	124
73	W. W. Day	75	do.	377	46	24	58	110	66	128	213
74	J. M. Day	84	do.	3,438	459	320	288	30	686	1,670	2,470
75	H. P. Milligan	23	do.	106	13	9	16	67	a/	35	71
76	R. E. Hays	32	Mar. 9, 1936	772	73	47	137	241	132	258	258
77	W. T. Moore	56	Mar. 7, 1936	682	117	33	84	259	60	254	449
79	do.	41	do.	1,015	86	29	263	445	125	290	333
80	Shanks School	53	do.	1,665	230	98	254	396	115	770	977
82	A. P. Carter	32	Mar. 20, 1935	168	3	3	53	12	52	51	20
83	L. C. Coleman	26	do.	101	1	4	34	3	a/	64	18
84	Tome Newman	31	do.	508	53	23	110	204	40	180	225
85	W. P. A. test well	31	do.	1,902	214	66	372	281	502	610	805
86	Fred Carter	33	do.	1,433	110	145	223	110	a/	900	870
88	Sterling Sims	25	do.	133	4	6	43	21	a/	76	30
89	W.P.A.test well	29	Mar. 18, 1936	1,256	146	40	277	238	39	635	530
90	John Wylie	29	Feb. 18, 1936	1,386	72	30	432	598	75	478	303
92	John Riley	15	do.	163	10	6	42	61	43	32	48
93	Mrs. G. V. Hullum	22	do.	201	32	20	9	43	57	62	164
95	John Riley	21	May 29, 1936	686	-	-	-	171	32	320	-
96	Jim Short	65	Feb.13, 1936	1,179	196	62	79	12	745	92	743
100	Tabernacle School	22	Mar.31, 1936	91	-	4	28	31	21	23	18
101	T. B. Connell	70	Feb.13, 1936	666	49	15	180	73	76	310	185

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Freestone County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Total hardness as $CaCO_3$ (calculated)
103	H.J. Vibrock	15	Feb. 13, 1936	1,711	208	100	284	128	115	940	933
104	G. C. Ward	86	do.	341	52	8	68	146	16	124	163
106	J.H. McAdams	45	Jan.30, 1936	1,779	180	31	470	171	124	835	573
107	George Hoose	80	Feb. 17,1936	1,416	256	81	150	171	84	760	973
109	H.J. Adamson	43	Jan. 30,1936	137	11	19	32	45	a/	28	105
111	Magnolia Pipe Line Co.	58	Mar. 3,1936	115	7	-	40	67	a/	35	18
112	do.	150	do.	318	8	18	92	98	a/	152	95
113	Mrs. Hugh Day	23	do.	974	80	30	257	403	56	350	324
115	C. J. Miner	42	do.	101	5	-	36	70	a/	25	15
116	Roy Simmons	35	Jan. 30,1936	382	78	32	12	180	27	53	330
117	do.	47	do.	1,524	287	104	106	21	930	76	1,343
118	do.	56	do.	476	120	30	13	20	a/	283	423
120	G.N. Demus	45	Mar. 6,1936	487	59	32	81	217	51	156	279
122	Jim Clements	47	do.	1,409	309	65	121	88	a/	870	1,035
123	Richardson High School	26	do.	5,211	820	348	438	91	1,800	1,760	3,483
124	Lena Bates	49	do.	1,145	176	70	138	238	197	445	726
125	W.P.A. test well	28	do.	7,082	769	570	1,000	262	462	4,150	-
126	Mrs. Bradley	22	do.	896	113	46	145	180	177	325	473
206	Betty Davis	80	Apr. 15,1936	525	31	31	132	305	37	144	204
207	J. S. Adair	75	do.	946	137	24	167	354	308	136	440
208	do.	47	do.	1,153	167	67	120	146	531	196	691
210	W.P.A. test well	30	Apr. 6, 1936	402	-	-	-	201	37	118	-
213	B.C. Whatley	60	do.	139	32	12	2	76	18	38	131
215	Guy Coleman	35	do.	1163	11	9	35	73	48	24	66
216	John L. Bonner	74	Apr. 14,1936	653	60	60	71	171	329	49	398
217	Mrs. M.C. Awalt	60	do.	1,343	-	-	-	262	613	166	-
220	Fred Nettles	19	Apr.15, 1936	47	-	-	-	31	a/	14	-
221	Paul Bonner	21	do.	172	-	-	-	122	a/	46	-
222	T.R. Bonner	45	do.	2,382	419	113	204	427	1,141	295	1,519
223	W.W. Steward	19	Apr.14, 1936	1,223	-	-	-	195	215	435	-
225	W.P.A. test well	32	May 13, 1936	234	-	-	-	177	33	27	-
228	Marvin Watson	89	Apr.24,1936	415	30	42	62	201	112	70	246
230	W.P.A. test well	43	May 14, 1936	290	-	-	-	195	31	55	-
233	Douglas Weaver	45	Apr.14, 1936	175	-	-	-	55	53	35	-

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Partial analyses of water from wells in Freestone County--Continued

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Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Total hardness as $CaCO_3$ (calculated)
234	W.P.A. test well	20	Apr.14,1936	31	4	3	4	24	a/	8	22
235	M.H. Whitaker	29	do.	259	65	14	16	220	16	40	219
236	do.	Spring	do.	309	-	-	-	55	63	112	-
237	Jim Frazier	48	Apr. 3,1936	498	-	-	-	18	129	192	-
239	Rich Salter	25	do.	-	-	5	-	-	15	78	-
240	Percy McGeorge	-	Apr.16,1936	495	-	-	-	372	15	108	-
241	W.P.A. test well	20	do.	277	-	-	-	134	79	90	-
242	W.S. Patrick	31	do.	280	32	13	35	-	144	56	132
244	M.J. Tate	41	do.	136	-	-	-	61	19	38	-
245	Leonard York	29	Apr.3, 1936	1,173	119	55	235	146	162	530	524
246	Colon Willard	28	do.	987	-	-	-	317	354	144	-
247	W.P.A. test well	37	do.	889	74	23	202	24	318	260	279
248	S.A. Smith	14	do.	109	-	-	-	43	8	40	-
249	M.J. & W. Tate	42	do.	1,100	-	-	-	104	93	565	-
250	Walter Freeman	38	Apr.14,1936	199	-	-	-	128	a/	60	-
253	Arthur Cameron	17	Apr.13,1936	856	-	-	-	433	39	285	-
254	W. E. Jones	93	do.	-	-	-	-	-	a/	-	-
255	Forrest Jones	99	do.	355	45	16	67	232	61	52	180
256	Mrs. B.R. Speed	46	do.	739	137	34	63	171	313	108	481
257	J. F. Aultman	41	do.	451	-	-	-	244	102	68	-
258	W.P.A. test well	29	do.	628	66	30	137	241	7	270	287
259	Carl Williford	41	do.	1,084	-	-	-	183	443	196	-
260	Ben Willard	24	June20,1936	1,925	246	86	294	256	698	475	968
261	Tommie Willard	29	do.	144	-	-	-	49	18	50	-
262	T.R. Donaldson	20	do.	338	-	-	-	116	103	62	-
263	W.P.A. test well	26	Apr.24,1936	1,409	-	-	-	250	a/	770	-
264	Wallace McGuyer	32	June15,1936	41	-	-	-	31	a/	10	-
266	do.	29	Apr.23,1936	75	-	-	-	24	a/	35	-
267	Henry Lee	39	do.	69	11	7	6	24	a/	33	54
268	Mrs. H. A. Lee	56	do.	43	-	-	-	18	a/	18	-
269	Ord Keaton	50	June15,1936	161	-	-	-	85	20	40	-
270	do.	20	do.	117	4	13	23	43	6	50	63
271	E.J.Folk	14	Apr.23,1936	42	2	5	7	37	4	6	28
272	W.P.A. test well	26	do.	39	-	1	13	6	8	14	5

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Partial analyses of water from wells in Freestone County--Continued
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273	Jeff Owens	15	Apr. 23, 1936	91	-	-	-	92	a/	10	-
274	Martha Day	80	Apr. 13, 1936	660	101	34	86	189	181	166	391
276	Mrs. J. W. Day	115	June 20, 1936	563	78	20	107	183	48	220	277
277	Jimmie Day	15	Apr. 13, 1936	154	-	-	-	122	16	20	-
278	Shadrick Thompson	58	June 20, 1936	616	-	-	-	299	145	106	-
279	W.M. Jones	37	do.	1,783	299	74	203	397	702	310	1,501
280	J. L. Shanks	20	Apr. 13,1936	692	-	-	-	415	39	190	-
282	do.	85	do.	951	104	35	211	262	57	415	401
283	W.P.A. test well	31	Apr. 3, 1936	337	-	-	-	171	a/	126	-
284	R. N. Cannon	62	do.	281	-	-	-	171	29	64	-
285	J. L. Miller	32	do.	330	-	-	-	214	50	54	-
286	J. E. Irvin & J.E. Bishop	32	do.	176	-	-	-	73	61	19	-
287	Jim Vaughan	21	do.	170	-	-	-	61	31	49	-
288	Vell McAdams	24	do.	881	-	-	-	317	80	325	-
289	Matt Henderson	24	do.	386	29	9	105	214	80	58	111
290	W.P.A. test well	25	do.	2,427	-	-	-	85	86	1,430	-
291	John Blakely	37	do.	536	-	-	-	439	58	60	-
292	John Norris	18	do.	2,695	454	77	345	153	1,034	710	1,452
293	J. R. Sessions	22	do.	1,414	-	-	-	281	312	475	-
294	W.P.A. test well	29	Mar. 19, 1936	141	6	4	46	85	a/	43	31
296	Johnny George	44	do.	208	32	6	18	35	a/	110	106
297	W.P.S. test well	29	do.	455	16	9	23	159	43	285	76
298	Lake Watson	55	May 29, 1936	923	-	-	-	390	106	290	-
299	Fred Jett	8	do.	80	-	4	26	55	10	13	17
300	L. R. Boyd	45	do.	510	-	-	-	159	48	200	-
301	W.P.A. test well	29	Feb. 1, 1936	123	-	3	44	43	10	45	13
302	Billie Watson	25	Mar. 26, 1936	110	4	4	33	61	17	22	28
304	Mary John	11	do.	138	-	-	-	98	8	30	-
305	Nat McGee	19	do.	140	-	-	-	43	21	48	-
306	J.R.B. Cain	29	do.	967	-	-	-	79	8	570	-
307	R.P. Slatter	41	do.	347	-	-	-	73	8	176	-
308	W.P.A. test well	33	do.	1,718	224	118	252	49	a/	1,100	1,043
309	Newt. Robinson	40	do.	310	-	-	-	98	19	130	-

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310	Walter Ely	41	Mar. 26, 1936	572	96	40	65	262	27	215	405
311	J. H. Eubanks	47	do.	1,805	-	-	-	134	708	445	-
314	Mrs. Misildine	21	June 15, 1936	111	2	3	41	110	a/	11	17
315	Johnny Castle	21	do.	126	-	-	-	79	20	21	-
316	J. C. Ritter	15	do.	567	14	13	192	299	61	140	88
317	J. F. Day	20	do.	670	-	-	-	384	180	64	-
318	Marion Willard	30	do.	620	-	-	-	427	49	128	-
319	Tom Lindley	28	June 20, 1936	453	-	-	-	146	127	98	-
321	W.P.A. test well	29	Apr. 23, 1936	1,444	-	-	-	49	75	830	-
322	F. M. Kent	20	do.	1,219	-	-	-	299	7	620	-
324	John Metzger	74	May 1, 1936	1,154	150	79	196	98	221	460	699
325	Keeney & Hall	19	do.	602	38	26	137	79	222	140	201
400	J. & G.V. Williams	28	Sept.21,1936	138	-	-	-	49	12	52	-
401	Chris. Talley	95	do.	326	42	21	57	317	35	15	193
402	Chas. Reese	79	do.	509	121	22	17	159	222	49	394
403	E. E. Nettles	63	Sept.21,1936	491	74	21	79	311	113	51	273
404	L. Granville	35	Sept.23,1936	81	-	-	-	79	a/	10	-
405	Scott Ward	23	Sept.21,1936	234	-	-	-	238	a/	25	-
406	C.H. & E.M. Watson	15	Apr.24,1936	231	44	10	32	159	11	56	151
407	W.P.A. test well	24	do.	72	-	-	-	43	12	13	-
408	J. C. Granberry	63	do.	186	-	-	-	165	4	29	-
409	Mack Cockrell	68	do.	463	-	-	-	110	4	235	-
413	L. E. Spencer	30	do.	90	-	-	-	24	7	38	-
414	W. T. Cole	105	do.	546	53	18	89	220	202	76	204
416	R. Q. Young	10	Sept.23,1936	65	-	-	-	43	12	8	-
417	Stanolind Oil Co.	370	Sept.22,1936	1,488	2	5	595	586	8	590	28
418	J. H. Granberry	47	Apr. 23,1936	149	-	-	-	67	a/	60	-
419	Boyd Henderson	41	do.	204	-	-	-	134	a/	60	-
421	Mrs. May Casey	48	June 15,1936	2,215	388	144	181	73	456	1,010	1,564
423	W.P.A. test well	32	Apr. 23,1936	36	4	6	2	24	a/	12	33
424	Brady Gunter	23	June 15,1936	260	40	11	45	159	20	66	147
425	J. S. Newman	55	do.	336	-	-	-	207	a/	106	-
426	John McCann	65	do.	174	-	-	-	140	a/	38	-
429	W.P.A. test well	25	May 19, 1936	71	7	8	6	12	27	17	50

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431	W.P.A. test well	30	May 1, 1936	332	-	-	-	98	63	104	-
433	do.	37	May19, 1936	69	8	10	3	37	10	20	61
436	F. E. Hill	23	Apr.27,1936	68	-	-	-	18	a/	34	-
437	do.	Spring	do.	24	-	-	-	12	a/	9	-
501	W.P.A. test well	32	May12, 1936	42	-	-	-	18	8	10	-
502	do.	30	do.	31	-	4	5	12	8	8	18
506	F. E. Hill	31	do.	89	2	5	22	37	33	9	23
514	W.P.A. test well	12	Apr. 9,1936	33	4	1	9	18	a/	15	16
517	Burleson & Red	19	June 9,1936	153	10	9	33	37	57	31	61
518	do.	20	do.	264	-	-	-	18	63	102	
520	W.P.A. test well	26	Apr. 9,1936	914	65	51	137	-	579	82	372
521	Joe Parker	19	June 9,1936	68	-	-	-	37	16	10	-
522	Mrs. J. C. Robison	25	do.	440	-	-	-	165	43	152	-
524	Mally Woods	28	do.	286	-	-	-	110	57	74	-
525	Shilo School	15	do.	62	11	8	-	24	16	15	60
526	W.P.A. test well	2[illegible]	June 1, 1936	367	43	68	123	-	462	166	402
527	Fanny Malone	16	June 9, 1936	66	-	-	-	37	a/	23	-
528	do.	22	do.	131	-	-	-	6	14	68	-
529	W.P.A. test well	22	June 1, 1936	216	-	-	-	6	131	16	-
530	T. H. Lee	14	June 19,1936	62	-	-	-	12	22	13	-
532	W.P.A. test well	13	Apr. 9, 1936	284	-	-	-	12	176	16	-
534	do.	25	Apr.10, 1936	25	2	5	1	12	a/	11	24
535	W. C. Gorman	15	June10, 1936	136	-	-	-	12	77	11	-
536	W.P.A. test well	30	June 3, 1936	271	-	-	-	-	115	76	-
537	B. B. Kimbell	70	June 19,1936	207	-	-	-	-	73	66	-
538	Robert Mims	22	do.	55	-	-	-	6	22	12	-
539	W.P.A. test well	24	June 3, 1936	280	-	-	-	-	159	26	-
540	Myrtle Webb	34	June 19,1936	384	6	39	51	-	220	68	174
541	J. W. Murdock	10	do.	92	-	-	-	24	a/	46	-
543	M. Danel	Spring	do.	105	2	3	33	24	22	33	17
544	Mrs. Keeling	26	do.	54	2	2	16	24	12	10	11
545	W.P.A. test well	37	June 2, 1936	196	6	9	58	49	8	92	51
546	E. Guess	36	June 19,1936	178	-	-	-	12	3	100	-
547	Jesse Lee	26	do.	527	-	-	-	98	73	220	-

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548	Mrs. E.E.Haddon	11	June 19, 1936	83	-	-	-	18	8	36	-
549	W.P.A, test well	19	June 3, 1936	113	-	-	-	-	29	46	-
601	William Jones	24	Mar. 26, 1936	548	-	-	-	445	8	110	-
602	J.R.B. Cain	15	do.	1,379	175	115	181	329	46	700	911
603	do.	25	do.	250	-	-	-	73	46	80	-
604	do.	27	do.	433	-	-	-	85	8	225	-
605	W.P.A. test well	22	Mar. 27, 1936	105	-	7	43	37	26	11	30
606	F. E. Hill	40	Apr. 25, 1936	177	-	-	-	61	30	54	-
607	do.	39	do.	92	-	7	28	61	a/	27	27
609	Riley Middleton	61	do.	1,733	301	88	151	293	749	300	1,114
610	W.A Parker	68	Apr. 7, 1936	740	-	-	-	110	183	250	-
611	Bryant Daniels	85	do.	438	45	45	62	293	24	118	293
613	Grady Ivy	25	do.	137	-	-	-	55	57	7	-
614	Clenon Mullin	33	do.	44	-	-	-	37	a/	9	-
616	Will Creel	22	Apr. 27, 1936	42	-	-	-	24	a/	14	-
617	W.P.A. test well	7	do.	64	5	5	10	6	19	22	33
618	N. L. Richardson	30	do.	72	9	14	-	24	a/	37	79
622	G. J. Weaver	19	Apr. 7, 1936	573	-	-	-	61	321	44	-
624	Joe McAdmas	31	do.	1,861	191	160	236	134	443	760	1,134
625	Mt. Zion School	39	do.	1,042	157	91	77	195	276	345	766
626	A. F. McAdams	48	June 9, 1936	5,023	714	369	503	498	1,397	1,800	3,304
627	L. V. Jones	25	do.	1,438	137	75	295	464	213	490	651
629	J. F. Emmons	22	Apr. 7, 1936	117	-	-	-	122	a/	11	-
630	J. S. Ivy	64	do.	459	56	28	67	61	120	158	252
631	Leonard Emmons	49	do.	78	-	-	-	67	a/	15	-
633	W. L. Glazener	79	Apr. 25,1936	1,102	-	-	-	336	225	325	-
635	Sim Chavers	65	Mar. 27,1936	500	75	34	52	61	127	132	326
636	W.P.A. test well	17	do.	58	1	7	9	12	19	16	33
638	W. R. Boyd Jr.	72	do.	1,732	235	154	153	122	380	740	1,220
639	W.P.A. test well	26	Mar. 12, 1936	2,405	184	113	530	110	434	1,090	-
640	T. C. Gardner	27	do.	2,330	259	97	463	442	350	940	1,044
641	Wm. McIlveen	45	Apr. 25, 1936	1,009	-	-	-	49	116	515	-
642	do.	41	do.	477	-	-	-	122	52	194	-

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643	W.P.A. test well	26	Apr. 25 1936	2,085	-	-	-	323	457	750	-
644	Edith Johnson	7	do.	27	-	4	5	18	a/	9	17
645	W.P.A. test well	21	Mar. 27, 1936	3,956	407	183	685	73	1,445	1,200	1,767
647	W. J. Lane Jr.	64	do.	421	-	-	-	146	80	120	-
648	Dew School	48	do.	312	-	-	-	183	15	90	-
649	A. H. White	18	do.	80	11	8	8	49	8	21	60
650	W. C. Clark	13	June 9, 1936	158	-	-	-	67	24	44	-
651	J. A. Harrison	45	Mar. 27,1936	2,116	-	-	-	610	357	710	-
653	W. F. Swinburne	47	Apr. 25,1936	330	-	-	-	92	19	146	-
655	A. Bradshaw	45	do.	159	-	-	-	110	11	34	-
662	Grady Weaver	33	May 6, 1936	109	-	-	-	-	-	70	-
663	G. J. Weaver	31	do.	33	-	-	-	24	a/	8	-
665	W. N. Evans	70	June 9, 1936	551	8	9	136	49	94	230	56
667	Wood George	26	do.	72	-	-	-	31	8	23	-
668	do.	31	do.	211	-	-	-	55	75	38	-
670	A. C. Anderson	35	do.	127	8	11	23	6	8	74	67
675	R. E. Petty	17	do.	57	-	-	-	18	a/	27	-
676	John Adkins	20	do.	97	-	-	-	49	19	19	-
677	A. B. Adkins	65	do.	91	-	-	-	12	23	31	-
678	W.P.A. test well	13	Apr. 23, 1936	44	-	-	-	12	15	8	-
679	O. W. Killiam	28	June 9, 1936	75	-	-	-	12	23	21	-
681	Abe Jones	13	do.	176	-	-	-	18	73	37	-
682	do.	22	do.	86	23	7	2	92	a/	9	84
683	Dan Bryant	45	do.	57	-	-	-	37	4	14	-
684	W.P.A. test well	25	Apr.30, 1936	5,598	475	377	503	-	3,384	535	2,734
685	Jim Jones	34	June 9, 1936	37	2	4	7	31	a/	9	23
686	W.P.A. test well	33	June 4, 1936	60	-	-	-	24	12	15	-
687	Mary Collins	10	June 9, 1936	137	-	-	-	85	16	60	-
688	George Moton	20	do.	74	-	-	-	37	12	17	-
691	W.M. Peyton	12	Apr. 30,1936	70	-	-	-	43	4	19	-
692	A. Weaver	19	do.	556	49	31	81	-	357	38	249
693	do.	17	do.	64	-	-	-	24	19	11	-
694	W.P.A. test well	20	do.	357	-	-	-	12	224	24	-
697	do.	27	May 18,1936	183	7	11	28	-	124	13	61

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802	W.P.A. test well	29	Feb. 27,1936	3,550	471	103	744	535	a/	1,940	1,600
806	Jim Roper	37	Feb. 3,1936	779	52	18	227	305	55	275	204
808	B.P. Compton	22	May 29,1936	279	-	-	-	61	110	47	-
809	W.P.A. test well	24	Feb. 1,1936	5,873	559	242	1,290	390	662	2,730	2,393
810	Lake Watson	17	May 29,1936	137	-	-	-	134	a/	17	-
811	G.W. Burleson	32	do.	150	-	9	46	55	12	56	37
812	W.P.A. test well	33	Feb. 31,1936	1,305	91	46	326	30	207	605	418
813	C.D. Lindsey	29	Jan. 31,1936	314	39	9	238	111	37	150	135
814	Pyburn School	26	May 29,1936	115	6	4	29	37	44	14	33
815	- Seals	21	Jan. 31,1936	84	32	8	29	30	107	10	113
816	W.P.A. test well	30	do.	64	1	6	14	24	12	19	25
817	D.W. Terry	21	Mar. 13,1936	226	10	5	77	204	a/	32	45
818	W.P.A. test well	23	do.	325	-	18	110	299	a/	43	75
819	do.	25	do.	43	2	1	12	12	12	10	10
820	P.R. French	11	do.	52	8	4	8	55	a/	5	35
821	do.	46	do.	47	1	2	15	15	a/	22	10
822	W.P.A. test well	29	Feb. 5,1936	1,145	124	49	225	152	186	485	513
824	Tom Blackmon	26	May 15,1936	101	-	-	-	73	a/	26	-
826	W.P.A. test well	25	Feb. 21,1936	818	72	25	221	427	90	222	283
827	- Webb	10	May 15,1936	1,121	-	-	-	415	248	275	-
828	P. M. Winfrey	19	do.	1,917	-	-	-	671	264	635	-
829	Frank Baggett	21	do.	2,750	-	-	-	256	436	1,230	-
830	Marshall Harris	18	do.	126	-	-	-	24	a/	68	-
833	J. M. Miller	65	do.	2,431	333	136	392	390	48	1,330	1,390
834	W.P.A. test well	16	Feb. 21,1936	3,306	407	163	808	463	97	2,100	1,689
835	W.C. Miller	12	May 15,1936	141	-	-	-	61	39	14	-
836	Ed. Martin	16	do.	3,225	-	-	-	262	127	1,810	-
837	B.C. Gilliam	18	Feb. 10,1936	215	-	3	122	67	8	49	13
838	W.P.A. test well	26	do.	265	-	-	-	85	7	118	-
839	Mrs. J.E. Curry	55	May 19, 1936	613	-	-	-	195	a/	290	-
841	do.	50	do.	265	-	-	-	201	a/	64	-
842	Mrs. Ada Washburn	35	do.	274	22	11	75	250	a/	43	102
844	R. R Long	18	do.	120	-	-	-	43	37	21	-
845	W.P.A. test well	29	Feb. 11,1936	38	-	-	-	85	7	5	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Freestone County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Total hardness as $CaCO_3$ (calculated)
846	W.P.A. test well	24	Feb. 5,1936	202	-	7	62	25	24	84	28
847	Wood Goolsby	Spring	do.	57	1	-	225	37	a/	15	50
848	W.P.A. test well	29	Mar. 13,1936	3,433	396	160	580	665	1,095	870	1,650
849	N. S. Curry	17	do.	4,274	433	173	908	488	461	2,050	1,807
850	do.	38	do.	3,521	455	148	574	408	960	1,130	1,748
851	do.	47	Mar. 13,1936	5,324	613	430	650	97	1,133	2,450	3,298
852	Tillie McDonald	29	do.	582	40	16	173	478	24	90	167
853	Minnie McDonald	48	do.	151	9	3	50	159	a/	9	35
854	do.	24	do.	130	10	5	37	122	a/	17	45
855	W.P.A. test well	29	do.	216	12	6	60	116	56	24	56
856	do.	29	Feb. 7, 1936	754	100	28	157	378	a/	280	363
857	do.	23	do.	2,697	285	114	529	61	559	1,130	1,180
858	Smith Johnson	37	Mar.24, 1936	420	-	-	-	183	12	162	-
859	Oscar Johnson	60	do.	737	-	-	-	207	86	285	-
860	Bill Moore	35	do.	459	62	21	36	250	29	138	243
861	Bob Moore	38	do.	461	-	-	-	232	48	130	-
863	Ben Biggs	25	Mar.11, 1936	1,056	85	38	272	314	19	485	371
864	W.P.A test well	30	do.	1,421	54	92	-	794	151	400	778
865	B. L. Seely	59	do.		421	29	65	195	36	140	252
866	W.M. Partin	16	May 15, 1936	796	-	-	-	586	73	136	-
867	do.	31	do.	157	-	-	-	123	a/	33	-
868	W.P.A. test well	34	May 11, 1936	3,553	442	175	532	616	1,321	780	1,823
870	do.	19	do.	168	-	5	56	55	42	38	20
871	do.	29	Feb.24, 1936	292	19	8	345	86	a/	137	80
872	J. A. Allison	33	do.	214	32	15	29	73	a/	102	142
873	J. B. Sandifer	28	May 15, 1936	172	-	7	64	183	a/	11	27
874	W. T. Beene	35	do.	158	-	-	-	134	a/	31	-
875	Mrs. Bert Wren	22	do.	105	-	-	-	98	a/	16	-
876	W.P.A. test well	17	Mar.11, 1936	295	-	23	83	159	32	78	93
877	John Epps	28	do.	1,144	34	15	412	903	60	172	147
878	A. W. Thompson	18	do.	193	7	3	63	73	32	52	30
879	W. J. Shelby	32	do.	1,207	140	86	196	402	64	520	705
880	W.P.A. test well	25	do.	1,168	48	46	318	61	201	525	310
881	F. P. Norman	16	do.	1,311	106	89	259	256	119	610	631

a/ Sulphate less than 10 parts per million.

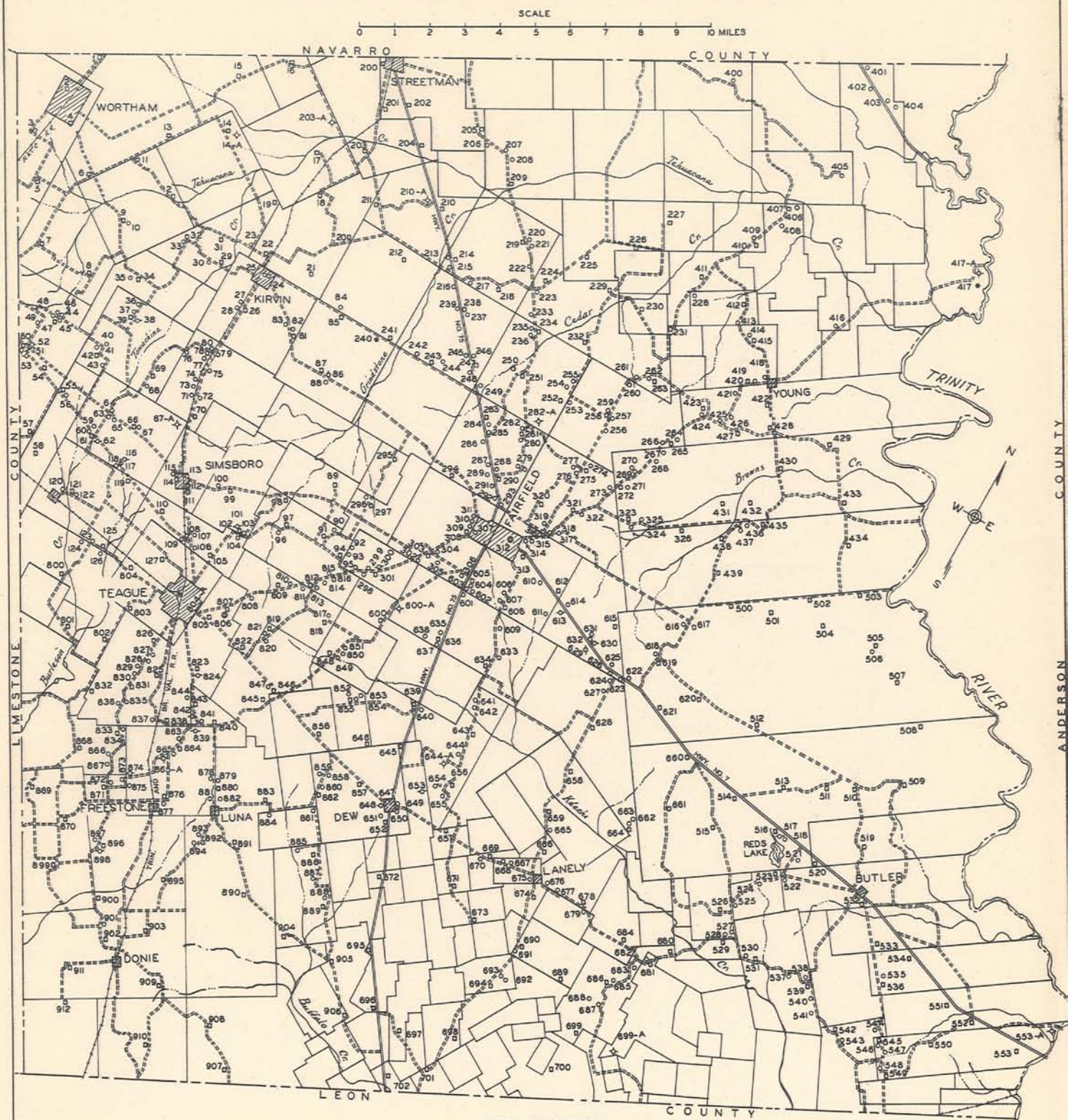
Partial analyses of water from wells in Freestone County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Total hardness as $CaCO_3$ (calculated)
882	- Bowen	37	Mar. 11, 1936	122	-	3	27	40	38	34	11
884	Henry Daniels	40	Mar. 24, 1936	377	-	-	-	275	21	73	-
885	F. Peterson	7	Mar. 25, 1936	134	-	-	-	85	15	27	-
887	Alice Jerden	27	Mar. 24, 1936	44	-	-	-	12	12	11	-
888	Gillian Poindexter	71	Mar. 25, 1936	1,081	28	97	215	366	411	150	470
891	W.P.A. test well	27	May 8, 1936	528	-	-	-	336	57	110	-
892	do.	27	Mar. 17, 1936	4,093	464	173	840	1,010	311	1,800	1,871
893	L. E. Baty	16	do.	118	10	3	34	85	a/	29	35
894	do.	45	do.	843	40	26	255	433	56	250	208
896	W.P.A. test well	29	Feb. 24, 1936	3,962	393	161	896	732	122	2,030	1,644
897	D. F. Farrell	16	do.	333	38	6	121	23	87	70	118
898	Doyle Newsome	33	do.	798	88	25	214	153	a/	400	223
901	Alvis Harris	22	do.	256	2[illegible]	6	73	147	a/	82	78
902	W.P.A. test well	23	Feb. 25, 1936	4,054	389	196	880	408	15	2,370	1,779
908	do.	19	May 25, 1936	353	-	-	-	12	88	140	-
909	do.	31	do.	721	31	25	205	79	86	335	180

a/ Sulphate less than 10 parts per million.

MAP OF FREESTONE COUNTY, TEXAS
SHOWING LOCATIONS OF WATER WELLS LISTED



- EXPLANATION -

- WELL WITH BUCKET, BAILER OR HAND PUMP
- WELL WITH WINDMILL OR SMALL POWER PUMP
- WELL WITH PUMPING PLANT - 5 HORSEPOWER OR LARGER
- FLOWING WELL
- UNUSED WELL
- WELL DRILLED TO TEST FOR OIL OR GAS
- TEST WELL DRILLED BY W.P.A. LABOR
- SPRING
- IMPROVED ROAD
- UNIMPROVED ROAD
- RAILROAD

FIELD WORK BY
H. L. CHENAULT
PROJECT SUPERINTENDENT
W.P.A. PROJECT 2077

BASE COMPILED FROM
LAND OWNERSHIP MAP
AND FIELD NOTES

TEXAS BOARD OF
WATER ENGINEERS
ASSISTED BY
U. S. GEOLOGICAL SURVEY

8-14-37.